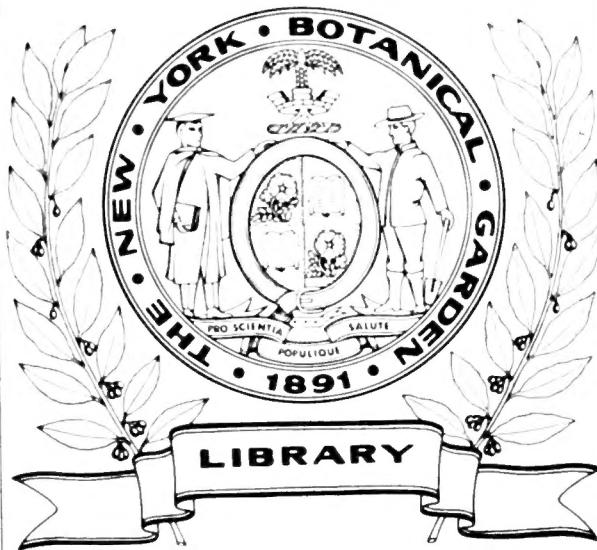


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Vol. XXIII

No. 1

JAN. 1

1916

HORTICULTURE



A Church Wedding Decoration

Third Presbyterian Church, Pittsburgh, Pa., by Randolph & McClements.

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription, \$1.00

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

The First Potting

The batch of cuttings that was put into sand the latter part of November or the first days of December, will now be ready for potting. Make sure that the pots are clean. More trouble with young plants can be traced to dirty pots than to any other cause. The first potting should be in 2½-inch pots. Two-inch pots are too small—not for the cuttings but because the plants have to be shifted into larger pots so soon after the first potting, thus making much more work. We use no crock at all in the small pots unless the soil happens to be heavy. Then a little screened coal ashes will do very nicely. Use only enough to cover the bottom of the pot slightly. Make sure that the cuttings are put deep enough for shallow potting is not very desirable. If the cuttings are not put in deep enough trouble will be experienced when syringing later on and then the plants will not break as freely from the bottom after they are set in the benches. We find we get much better stems from plants that were potted deep enough at the first potting. Use nice porous soil, not too heavy, as the roots will work into lighter soil much easier. The heavy soil can be used later for repotting into the larger pots. Use only about a four-inch potful of bonemeal to a wheelbarrow of soil. If more were to be used it might damage the roots as these are very tender the first week or so on leaving the sand.

Where to Put the Plants

The best and sunniest bench on the place is none too good. We generally take out the old plants and about two inches of soil with them. The rest of the soil is left in the bench and after getting a good coat of fresh air-slacked lime, is covered with two inches of finely screened ashes. These have to be quite fine, otherwise the pots will not set good. Needless to say, the ashes should be leveled, as should the soil before the lime and ashes are put on. See that there is no lime sticking out

through the ashes anywhere on the bench for if the pots were set on this it would soon stop up the drain in the bottom of each and the plants would not thrive. Where labor does not matter so much it would be a good plan to take out all the soil in the benches, wash these out and whitewash them. Then put on two or three thicknesses of newspaper and spread the screened ashes over this. There will be no danger then of the young stock contracting any disease or insects from the old soil.

Care in the Propagator

If the sand in the propagator is to be used again great care should be taken to remove all dead leaves, pieces of broken roots, and cuttings. If any of this were to remain in the sand, fungus would attack these remains and then when the new lot of cuttings came in chances are that it would spread to these too and cause trouble. Where sand is cheap and labor not considered it would be well to use fresh sand after thoroughly cleaning the benches. With care, however, we have used the same sand three or four times without any trouble whatever.

Shading the Cuttings After Potting

It will be necessary to shade the newly potted cuttings carefully the first few days. For this purpose use two thicknesses of old newspaper for the first three or four days. One sheet can then be used and, depending on the weather, can be left off an hour in the morning and taken off an hour earlier at night. This time can be prolonged as the roots take hold and finally the plants are shaded only at noon when the sun is very bright. Should air currents in the house pick up the papers, sprinkle them over now and then with the hose. Growers sometimes scatter a little earth over the papers to hold them down, but this is not very good for in taking the papers off some of the earth is bound to get into the pots, and these are then apt to get a little too full here and there, which will upset the evenness of their drying out.

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by advertising your goods in the
Horticulture

Publicity among the kind of readers reached
by this paper is THE SORT OF PUBLI-
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SOCIETY OF AMERICAN FLORISTS

— AND —

ORNAMENTAL HORTICULTURISTS

NEW YEAR'S GREETING

There is no day in all the year that brings more expectant joy to the heart of every man than the advent of a new year. The privilege, as President of the S. A. F. and O. H. of extending to its members and to their families the sincere wish for a happy and prosperous New Year, gives me extreme pleasure.

There is no doubt whatever in my mind but that it will be a prosperous year, and inasmuch as prosperity and happiness go hand in hand, I can readily assume that it will be a happy one. Trade conditions throughout the country are very healthy. We have harvested the largest crops in our history and this is the back-bone of prosperity in any country.

We have more to hope for in the year 1916 than we have ever had before. Our Country has been saved from the horrible calamity which has overwhelmed Europe and we are hopeful that we will be spared from such a fate, not only this year, but for all years to come.

It is with great personal gratification that I can look upon the S. A. F. and O. H. as more truly a National Body than it has ever been. The Convention held in San Francisco in 1915, was in my opinion, a step forward. Its convening in Houston, Texas, in 1916 will be another step toward making it a really National Organization in every sense of the word. By extending our Conventions to the West and South, we not only benefit those sections, but the Society itself gains much by securing large numbers of recruits from the new territory which has thereby become attached to it. Every section of the country is benefited, and the members are already drawn closer together than ever before, forming a universal brotherhood for the promotion of all that is beneficial to the individual and to the Society as a whole.

As the President of this worthy Organization I am proud to be able to send a kind greeting to all the craftsmen of the Society. Our membership is increasing steadily and I know that it will continue to do so. This larger membership will make it possible for us to undertake in the future many things that would be otherwise impossible. I am particularly desirous that every man associated with our profession should have the opportunities which our Society affords and as a slight stimulant toward increasing our membership, I am offering \$150 in gold the same as was done by my predecessor, Mr. P. Welch. This I will hand to Mr. John Young, secretary, as an award to the member who will bring in the largest number of new members between the period January 1 and July 31, 1916—the only stipulation being that the winner must bring at least thirty new members.

I hope that the Vice-President in every state, as well as every member of the Board of Directors, and every permanent committee, will co-operate with me in pushing forward this endeavor to increase our membership. In order that these heads may attain the required success it will be necessary for every individual who is fortunate enough to be a member of the S. A. F. and O. H. to give forth his best efforts, for "In Unity there is Strength," and if these efforts are put forth untiringly, we will beyond a doubt soon have a membership list three times what it is today.

It is the sincere desire of this Society to build up a permanent Institution founded on a pillar of fairness and goodwill, and I hope every member will lend his efforts to this end.

Again extending a message of hearty good wishes and unbounded blessings for the New Year, I am,

Faithfully yours,



President.

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JAN. 8

1916

HORTICULTURE



Magnolia salicifolia

A new species. Plants raised by Jackson T. Dawson, Arnold Arboretum, Boston, Mass., from seed collected in Japan by Professor C. S. Sargent.

JACKSON T. DAWSON

HIS WORK AND HIS WORKSHOP

Born on October 1, 1841, Jackson Thornton Dawson is, as his name implies, still hale and hearty, and as his life has unfolded, he has been rich in experience of a varied and colorful life. He has lived to see in a great measure the fruits of his labors. During the Civil War he gained the strength in him to his adopted country. His body is scarred by wounds but even during that terrible time he found time to collect and select from the arena of war many interesting plants. His association with Professor C. S. Sargent began in 1873, and the dual labors in the field of horticulture of these two men have been more fruitful in results than that of any such combination, past or present, that we have record of. The collection of living plants in the Arnold Arboretum, the most complete on this continent and, when climate is duly considered, not excelled the world over, is a fitting monument to the diligent labors of these two men. But their work begins—not ends—in the Arnold Arboretum, for since the institution's inception a world-wide distribution and interchange of plants has been an important branch of its activities. The result is that in this country, in Europe and elsewhere as remote as New Zealand, many large private establishments, parks and arboreta owe a great number of their choicest plants to the skill of Jackson Dawson and the generous policy of the director of the Arnold Arboretum.

Jackson T. Dawson is known throughout the length and breadth of this country and Canada. He is equally well-known in Europe where in some ways the work of the Arnold Arboretum is better understood and appreciated than it is here in eastern North America. Jackson Dawson's skill in the propagation of all sorts of plants in all sorts of ways is spoken of almost with awe in places far and wide, and his success is proverbial. It would seem as if there was some close bond of communion—some occult understanding—between the plants and the man. But, however this may be, the patient, attentive care of the man seems to bring under submission the most intractable plants, and if a spark of life be left in a stick, a root or a seed it blossoms forth under his persuasive ability.

The picture shows not only the man but his workshop. This greenhouse, only 50 feet long, 20 feet wide and 12 feet high with its humble exterior and its in no

sense up-to-date interior, for it was built some twenty-nine years ago, has made history as probably no other such structure has. Inspect it closely; its thick wooden beams and sash bars, its improvised shelves and fittings, and note that plants are crowded in everywhere. It always is and always has been crowded on and under shelf and bench. Unfortunately there are no figures available of the actual number of different kinds of plants in cultivation in the Arnold Arboretum, much less of the number that has been raised there, but the most astonishing fact is that, their number notwithstanding, they have mostly passed through this house in the infantile stages of their careers. This workshop—this tiny greenhouse—is the cradle of the Arnold Arboretum, and Jackson Dawson is, and has been from

the commencement, not only nurse but foster-father also. Not more than one hundred yards from the spot where this photograph was taken is growing a Pin Oak (*Quercus palustris*) which is 70 ft. tall and has a trunk nearly 7 ft. in girth and this lovely tree was raised by him from an acorn!

To stroll among the collections with Jackson Dawson and learn the history and origin of this and that tree or shrub is a rare delight.—“This plant came from —, this was raised from seeds which came from Dakota or from the White Mountains, that from seeds collected by Bretschneider in China or by Sargent in Japan; this is a grafted plant, and that is from a cutting received from — in —,” and so the story is unfolded.

Not all the new plants he has raised have proved capable of withstanding this New England climate, and others for reasons not apparent have not proved amenable to cultivation in the Arnold Arboretum, but the wise policy of widely distributing the young plants has preserved them to cultivation elsewhere if not here. The *Magnolia* portrayed as a frontispiece in this number of *HORTICULTURE* is an example of such plants and it is a pleasure and a privilege to introduce in the fullness of its blossom this errant beauty to the Nurse of its youth.

Our Editor has asked me to write a few lines to accompany the picture and I feel complimented at the request. But a difficulty arises when one sits down to translate thoughts into sentences. Words seem inadequate or extravagant in their meaning and equally



JACKSON T. DAWSON

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Fumigation

There is no reason why the plants should be allowed to become infested with greenfly at this time of the year when it is plenty cool enough to fumigate and with many nice preparations made for the purpose. The same applies to spraying. To keep expenses as low as possible it is best to watch the plants closely and apply a dose of spray or fumigate as soon as the least trace of insects can be seen. Do not wait until they increase to large numbers, as it will be hard work to get rid of them then, for the smoke or spray will have to be made quite strong to kill some of the older ones who are pretty tough as a rule. Try to spray or smoke just before syringing. The work should be done the last thing in the evening or at night and never in the daytime unless it is cloudy. In spraying, spray in the morning during the winter and late in the evening during the warm and hot months of the year. To make the fumigating as effective as possible have the plants plenty wet enough. Then do it on a quiet day. When it is raining is an ideal time, as the houses are tighter then, as all cracks and spaces between glass are filled with water.

Tobacco Stems in the Walks

With winter here, the houses not getting very much air, growers will be thinking of tobacco stems for the walks to keep the greenfly down. Personally I do not like the idea of the stems either, as they make the walk unnecessarily damp. Also the air in the house is not as healthy to work in when charged with the odor of the stems. Growers who smoke will not notice this at all or if they do they will not mind very much. Make no mistake in thinking that these stems will rid the plants of greenfly for they will not. They will help prevent greenfly from spreading but the houses must be clean before the stems are put in. As soon as the stems get stale more will have to be put in, taking the old ones out before doing so. The old stems should not be wasted but should be put on the manure pile as they make excellent plant food when they decay and are very good to use in the vegetable garden.

Syringing Young Plants

As soon as the young cuttings become established in the pots they will have to be syringed. This work must be done very carefully and with less pressure than what is used for the old plants. Also the spray should be directed to hit the plants as the leaves are pointing and should be steady, moving the nozzle from side to side. No up and down motion should be used at all as this will shake up the cuttings a good deal, and ruin quite a few. In syringing old plants in benches next to the young stock care should be taken not to throw any water from the old plants on to the young as this water is likely to be mixed with some spiders and these would certainly make themselves at home on the little plants. Care should also be taken to syringe the plants very quickly and quite early in the morning so that they will have every chance to dry off before night.

Watch Out for Worms in the Pots

Sometimes the man applying lime to the benches before the ashes are put on will be a little careless and not cover the soil well and some worms will work up into the pots. If there are not very many it is best to take the plant and knock it out of the pot, and as a rule the worm can be caught right there. If there are many plants affected this way then it will be necessary to give them a dose of lime water which will do away with most of the worms. There are worms in the soil used for potting at times so it is not always a case of careless work in preparing the bench. These may be in egg form, so they may not be noticeable, but as soon as given heat and moisture they hatch out and make a nuisance of themselves.

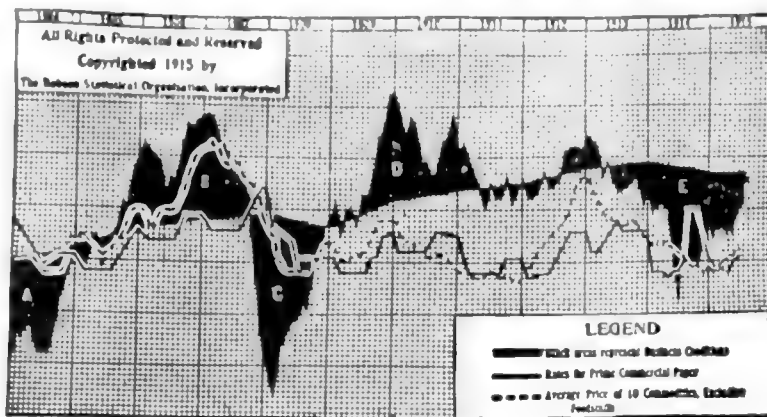
Watering

With the dark days of winter here every now and then, great care should be taken not to get the plants too wet. This applies especially to Beauties, and plants that are cut off pretty well. If there is any spot on the plants at all it should be picked off as it is almost sure to spread and prove quite bothersome before spring sets in.

objectionable on either account. Yet even in this materialistic twentieth century youth may respectfully do homage to age and experience, and in any and every era an indebtedness can be honestly acknowledged. For the attention and loving care he has lavished on the seeds, plants, sticks and roots I culled in the back blocks of western China and Japan, I owe Jackson Dawson a debt of gratitude and my appreciation of his care lacks nothing from a full knowledge of the utter futility of a collector's work when his spoils fall into the hands of the indifferent or incompetent. Though he may be quite unconscious of the fact, it is none the

less true that virtually every reader of this paper also owes something to this grand old gardener. And the science of Horticulture owes him a lasting debt for his labors toward its uplift. Long may Jackson T. Dawson in health and strength be spared to increase this debt, and to increase in number and variety the plants he loves so well.

J. H. Wilson.



It's the Same With the Greenhouse Business As It Is With Other Business

ONE of the really funny things about business is, that so many business men think that their business has nothing to do with any other business.

You and I, however, know that every business, in one way or another, effects every other business.

Of course, there will always be the so-called "Lucky Devil," or the man who accidentally falls into the soft things, and thinks he did it all himself. But more and more, success in business is being reduced to an exact science.

Take the bankers, for instance, they have the most exasperating way of shutting down on loaning a fellow money, at times when the sky seemingly never looked bluer or business better.

Then they also look on the bright side when business, for all you and I are getting out of it, is still very much to the bad.

Bankers know their business. Not only their business, but they have records and charts of exactly how

all kinds of business have acted for years and years. That's one of them at the top.

They go by some such chart.

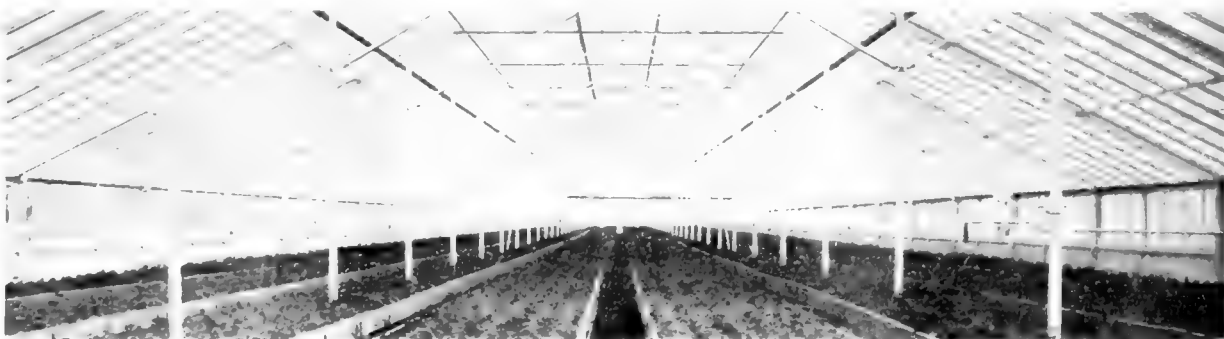
The July before the war broke out, the charts said better business was due, and nothing but war could stop it.

If war orders were cut off tomorrow, business would promptly adjust itself and go booming along.

It's due to be here, and it's here. Careful, conservative men like Mr. L. B. Coddington of Murray Hill, believed so firmly that it was to be here, that long before it actually was here, he ordered thousands of dollars worth of greenhouses from us. It was one of the largest single greenhouse contracts he has ever placed.

Why don't you get in on this business boom by building more houses? Forget all that hot air talk about there being "too much glass."

You know we go anywhere for business or to talk business.



Chas. Smith & Sons, Bound Brook, N. J., believed in better business. So early last summer they put their belief and their money into one of our Reconstructed Construction Houses 18 feet wide by 100 feet long.

Hitchings and Company

NEW YORK
1170 Broadway

BOSTON
49 Federal Street

PHILADELPHIA
40 S. 15th Street

General Offices and Factory: Elizabeth, N. J.

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JAN. 15

1916

HORTICULTURE



View in Schenley Park, Pittsburgh, Pa.

Robert Burns Monument and the Phipps' Hall of Botany

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the German Iris; beautiful large lavender,
suitable for cut flowers as well as for the
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Pansies, the big giant flowering kind,
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show the nice plants, hundreds of testi-
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flooded with new business. JAMES MOSS,
Johnsville, Pa.

PAPER POTS

The Cloche Co., New York City.
Collapsible Paper Boxes.
For page see List of Advertisers.

PHOENIX CANARIENSIS

In all sizes. Special price-list on demand.
JULIUS ROEHRS CO., Rutherford, N. J.

PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.

PELARGONIUMS

Roman J. Irwin, New York City.
For page see List of Advertisers.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
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King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

Pfaff & Kendall, Newark, N. J.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seeds, Trellis Plant Stakes and Trell-
ses. H. D. SEETH & SONS, Phila., Ind.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
Raverton Special

POLYANTHUS

William S. Clifford & Sons, Mass.
Sons Hybrid Yellow
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RACIA

McHutchison & Co., New York, N. Y.
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RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
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RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
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ROSES

Charles H. Totty, Madison, N. J.
Grafted Roses.
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P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Henry A. Dreer, Philadelphia, Pa.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
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Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Ehler).

F. R. Pierson Co., Tarrytown, N. Y.
Prize Winning Roses.

THE CONARD & JONES COMPANY.
Rose Specialists.
West Grove, Pa. Send for offers.

SCALECIDE

B. G. Pratt Co., New York City.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

Frank Oechslein, Chicago, Ill.

SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

Peter Henderson & Co., New York City.
Everything for the Garden, Lawn and Farm.

Joseph Breck & Sons, Boston, Mass.
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J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Boddington Co., Inc., New York City.
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Chas. Schwake & Co., New York City.
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Michell's Seed House, Philadelphia, Pa.
New Crop Asparagus Seed.
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W. Atlee Burpee & Co., Philadelphia, Pa.
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R. & J. Farquhar & Co., Boston, Mass.
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J. M. Thorburn & Co., New York City.
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SEEDS—Continued

Lochner & Co., New York City.
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Ant. C. Zvolanek, Longport, Cal.
Winter Flowering Sweet Pea Seed.
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S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
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W. L. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
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Jan. Vick's Sons, Rochester, N. Y.
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August Rolker & Sons, New York City.
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Burnett Bros., 48 Chambers St., New York.
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Leonard Seed Co., Chicago, Ill.
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Fottler, Fiske, Rawson Co., Boston, Mass.
Seeds for the Florist.

SEED AND PLANT FORCER

The Cloche Co., New York City.
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SHEET MOSS (NATURAL AND DYED)
Knud Nielsen, Evergreen, Ala.

SPHAGNUM MOSS

New England Florist Supply Co.,
Boston, Mass.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

SHELF BRACKETS

Metropolitan Material Co., Brooklyn, N. Y.
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SPRAYING MATERIALS

B. G. Pratt Co., New York City.

STANDARD THERMOMETERS

Standard Thermo Co., Boston, Mass.
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SUN DIALS

The M. D. Jones Co., Boston, Mass.
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SWAINSONA, MRS. JOSEPH MANDA

Joseph Manda, West Orange, N. J.
New Orchid Colored.

SWEET PEA SEED

Ant. C. Zvolanek, Longport, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.
For page see List of Advertisers.

TRITOMAS

Now is the time to buy Tritoma Pätzert.
THOMAS J. OBERLIN, Sinking Spring,
Pa.

TUBEROSES

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
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VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

500,000 Giant Argentine and Palmetto
Asparagus Roots grown from selected seed.
500,000 Jersey Sweet Potato Plants, red and
yellow. 50,000 Vineland Bush Sweet Potato
Plants, no vines. 100 lbs. each Ruby King
and Pimento Pepper Seed. 25,000 Gladiolus
Bulbs. 10,000 Rhubarb Roots. All other
Vegetable Plants in seasons. Write for
what you want. No catalogue. I. & J. L.
LEONARD, Iona, N. J.

For List of Advertisers See Page 559

VEGETABLE PLANTS—Continued

Celery Plants: Golden Self-Blanching (French strain); fine plants, ready now; \$2.00 per 1000. Cash. Special prices on large lots. **BRILL CELERY GARDENS**, Kalamazoo, Mich.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
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The John A. Evans Co., Richmond, Ind.
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VERMICIDES

Aphine Mfg. Co., Madison, N. J.
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WEED KILLER

Pino-Lyptol Chemical Co., New York City.
Pino-Lyptol Weed Killer.
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WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
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WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
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WIREWORK

Reed & Keller, New York City.
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WILLIAM E. HEILSCHER'S WIRE WORKS, 204 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
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Baltimore

The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
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Boston

Welch Bros. Co., 226 Devonshire St.
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Patrick Welch, 202 Devonshire St.
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Henry M. Robinson & Co., 32 Otis St. and 1 Winthrop Square.
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Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
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Buffalo, N. Y.

William F. Kastling Co., 383-87 Ellicott St.
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Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
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J. A. Rudolph, 184 North Wabash Ave.
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Detroit

Michigan Cut Flower Exchange, 264-266 Randolph St.
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New York

H. E. Froment, 148 W. 28th St.
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James McManus, 105 W. 28th St.
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W. F. Sheridan, 133 W. 28th St.
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P. J. Smith, 131 West 28th St.
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Moore, Hentz & Nash, 55 and 57 W. 26th St.
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Charles Millang, 55 and 57 West 26th St.
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W. P. Ford, 107 W. 28th St.
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WHOLESALE FLORISTS

New York—Continued

J. K. Allen, 118 West 28th St.
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The S. S. Pennock-Meehan Co., 117 West 28th St.
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Traendly & Schenck, 436 6th Ave., between 26th and 27th Sts.
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Badgley & Bishop, Inc., 34 West 28th St.
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Woodrow & Marketos, 37 and 39 W. 28th St.
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Riedel & Meyer, Inc., 49 West 28th St.
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George C. Siebrecht, 109 W. 28th St.
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John Young & Co., 53 West 28th St.
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M. C. Ford, 121 West 28th St.
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R. S. Sinn, Jr., 55-57 West 28th St.
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United Cut Flower Co., Inc., 111 W. 28th St.
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Guttman & Reynor, Inc., 101 W. 28th St.
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Gunter Bros., 110 West 28th St.
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Henry M. Robinson Co., 55-57 W. 28th St.
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W. R. Siebrecht, 114 West 28th St.
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Herman Weiss, 106 West 28th St.
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J. J. Coan, 115 West 28th St.
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Philadelphia

Leo. Niessen Co., 12th and Race Sts.
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Edward Reid, 1619-21 Ransstead St.
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The S. S. Pennock-Meehan Co., 1608-20 Ludlow St.
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Richmond, Ind.

E. G. Hill Co.
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Rochester, N. Y.

George B. Hart, 21 Stone St.
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Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

THE NUT-GROWER

The unique monthly publication which furnishes reliable and interesting up-to-date information regarding the value of pecans and other edible nuts and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

New Offers In This Issue

AMERICAN BEAUTY ROSES.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
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COLDWELL LAWN MOWERS.

Coldwell Lawn Mower Co., Newburgh, N. Y.
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EUONYMUS RADICANS.

Jas. Wheeler, Natick, Mass.
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GRAFTED ROSES.

Charles H. Totty, Madison, N. J.
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NEW CROP FERNS.

Caldwell The Woodsman Co.,
Evergreen, Ala.

PLANT AND BULB IMPORTATIONS.

August Rolker & Sons, New York City.
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SEEDS, BULBS, PLANTS AND SUPPLIES.

Henry F. Michell Co., Philadelphia, Pa.
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THE "KING" OF THE PHILADELPHIA SHOW.

King Construction Co., No. Tonawanda,
N. Y.
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WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as no words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 147 Summer St., Boston.

HELP WANTED

WANTED—At once, a young man as assistant gardener with general knowledge and experience of greenhouse work, on private place. Also a vegetable gardener, single man preferred. Please state age, nationality and wages wanted. "G." care of HORTICULTURE.

SITUATIONS WANTED

POSITION WANTED as gardener and florist on small private estate. Three years' greenhouse experience. Good references. **CLIFFORD J. HINDS**, General Delivery, Keene, N. H.

SITUATION WANTED—Head gardener, middle age; life experience in the business and understands the routine of work inside and out; greenhouse plants, fruit, vegetables. Married, no family. "F." care HORTICULTURE, Boston, Mass.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 10 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money.

PARSHESKY BROS., INC.,
215-217 Havemeyer St., Brooklyn, N. Y.

PROPOSALS

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., April 5, 1916.—**SEALED PROPOSALS** will be received in this office until 10 a. m., May 3, 1916, and then opened, for planting trees, shrubs, etc., on the grounds of the Federal Building at Oldtown, Maine, in accordance with the specification, copies of which as well as copies of approach plan No. 1 of the building may be had upon application to the Custodian of the building, or at this office. **Jas. A. Wetmore**, Acting Supervising Architect.

In writing to Advertisers kindly mention Horticulture

PINO-LYPTOL

WEED KILLER

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

This fluid instantly destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hoeing away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

P.-L. CHEMICAL CO., 507-509 W. 19th St., New York

CORRESPONDENCE SOLICITED.

HOLLYHOCK RUST.

Editor HORTICULTURE.

Could you please suggest a remedy through your valuable paper for rust on foliage of hollyhocks? I have tried Bordeaux mixture repeatedly last season, but with no success. Any suggestion will be very gratefully appreciated by yours,

A SUBSCRIBER.

The hollyhock disease has been one of the most difficult pests to control in the entire list of garden troubles. Many growers succeed by persistent use of Bordeaux mixture but they insist upon early treatment even before the rust appears. In addition all infected foliage is promptly burned. Ammoniacal carbonate of copper has been successfully used by some and is preferred to the Bordeaux as less disfiguring to the plants. We would suggest a trial of Fungine if this has not been already tried. Many growers now make a practice of growing their hollyhocks annually from seed. —(Ed.)

DURING RECESS.

New York Florists' Bowling Club.

Scores for April 11, 1916.

R. J. Lewis	171	141	152
J. Mossman	161	163	167
W. H. Schroeder	155	157	158
P. Jacobson	154	168	159
C. W. Scott	163	172	159
J. Fennell	154		
M. J. Rotasos	172		
A. Kakuda	175	147	168

H. C. REIDEL, Sec'y.

Chicago Bowlers.

The employees of Zech & Mann, went out to Maywood April 13th and bowled with the Aming men who won two games out of three. Zech & Mann have some good players but they demonstrated the fact that they can be good losers also.

PUBLICATIONS RECEIVED.

Plant Propagation, Greenhouse and Nursery Practice, by M. G. Kains of State College, Pa., Published by Orange Judd Company, New York. We have had many inquiries from time to time for a reliable and up-to-date book on plant propagation, but were always at a loss to find any publication that we could recommend. The subject has been dealt with in fragmentary manner only in books that have come to our notice. So it is well that this new work has been issued, especially as it is both comprehensible and practical, and it should meet with a ready sale among plantmen, nurserymen and gardeners. There are nineteen chapters covering in detail topics of germination and longevity of seeds, propagation by buds, layering, cuttings, grafting, etc., fruit tree stocks, cions, etc., and there are eight pages of condensed cultural instructions in tabulated form, covering annuals and perennials from seed, woody plants, evergreens, vines, bulbs and tubers, greenhouse and house plants, ferns, palms, water plants, orchids and cacti. The illustrations are numerous, comprising 213 figures and halftone plates. There are 322 pages well bound and on heavy paper, teeming with helpful information. It is a book which no cultivator can afford to do without. It is worth many times its price. Copies can be supplied from the office of HORTICULTURE at publisher's price, \$1.50.

FREAKISH FACTS AND FACTLESS FREAKS.

Florists Mourn.

The seniors at Vassar have agreed to restrict the expenditure for flowers for Class Day to \$5 for each person. This is an innovation which every one probably commends with the possible exception of the Poughkeepsie florists.

—Waterville (Me.) Sentinel.

Cannibal Plant Sighs for Forbidden Mouse.

Whisper it, so the S. P. C. A. won't hear! The voracious plant from Barroto, which will be brought from Orange, N. J., to the Poughkeepsie, April 22, has started eating this 2 in. It didn't get out of control, the show spots at the Grand Central Palace from a neighborly owl have to have its meals sent in from some neighboring restaurant.

For last year, when the vegetable garden was starting at the show, a devil dog, a vicious appetite. Plus, a few quitoes, and insects of all sorts, were deemed to be a nuisance for a mouse, but before the management could send one a representative of the Society for the Prevention of Cruelty to Animals appeared and warned them to put the plant on a starvation diet.

Latest dispatches from Orange announce that the hungry bit of vegetation has just consumed five flies and two mosquitoes. At the show this year it will get nothing more exciting than a ham and

N. Y. Tribune Mar. 23.

USE THIS PURE PLANT FOOD

FOR
GARDEN

FOR
LAWN



MAGIC HUMUS is a pure plant food unleached and unburnt. Its analysis proves that it contains potash, phosphoric acid, nitrogen and Compost in available form.

MAGIC HUMUS COMPOST possesses the body and fibre to absorb and retain Nature's moisture after it is put into the ground and spreads its fertilizing elements through the soil.

Months are occupied in the preparation of MAGIC HUMUS. It reaches the garden free from weed seed and can be greatly handled.

The garden receiving a liberal application of MAGIC HUMUS COMPOST is permanently enriched with plant food and soil.

Seven 100-lb. Bags, \$5.00.

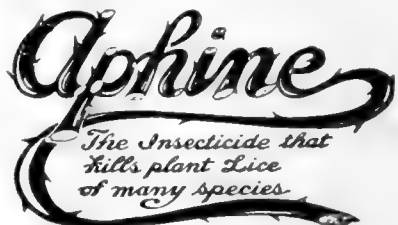
Single Bag, 100 lbs., 90c.

f. o. b. New York or Jersey City.

HIGHGRADE MANURE COMPOST CO.

G. W. CHANDLER, Sales Agent.

533 West 24th St., New York, or
68 Maple Ave., Red Bank, N. J.



The Recognized Standard Insecticide.

A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SCALINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.

Aetna Brand Tankage Fertilizer

Is the best balanced fertilizer manufactured. It contains the ten salts constituting soil. It is giving satisfactory results wherever used.

FARMERS' AND FLORISTS' FERTILIZER CO.
809 Exchange Ave., Room 5, Tel. Dwyer 1932
U. S. YARDS, CHICAGO, ILL.

IMP. SOAP SPRAY

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON

NIKOTEEN

For Spraying

APHIS PUNK

For Fumigating

Ask Your Dealer For It.

NICOTINE MFG. CO.

ST. LOUIS

Est. 1765

Inc. 1904

Pot Makers for a
Century and a Half

HEWS STRONG RED POROUS POTS

World's Largest
Manufacturers

Standard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.

Write for Catalogue
and Discounts

A. H. HEWS & CO., Inc., Cambridge, Mass.

Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

NEW CORPORATIONS.

Yonkers, N. Y.—McDonald Floral Co., Inc., florist, \$5,000; W. and M. M. MacDonald, 52 Ellicott Ave., Yonkers.

Syracuse, N. Y.—Russell Bros., Inc., florists; capital stock, \$50,000. Incorporators, C. M., E. H. and L. G. Russell, R. F. D. 4.

Orland, Cal.—Smith-Lachenmyer Nursery Co., capital stock, \$10,000. Incorporators, J. H. Smith, J. J. Lachenmyer and J. J. Flaherty.

Greenville, Mich.—Greenville Floral Company; capital stock, \$50,000. Incorporators, E. G. Muellic, E. A. Kemp, W. H. Browne and C. B. Rarden.

St. Louis, Mo.—Westover Nursery Co.; capital stock, \$5,000. Incorporators, Arthur W. Lambert, Boyle Price, H. W. Endres and F. R. Von Windeger.

Cleveland, O.—Park Flower Shop Co.; capital stock, \$10,000. Incorporators, Albert B. and Anna B. Barber, John M. Fratus, R. E. Elvidge and E. R. Cook.

Bluefield, W. Va.—Alexander Cut Flower & Plant Co.; capital stock, \$25,000. Incorporators, W. C. and M. B. Alexander, R. E. Goodrich, W. F. Soule and H. M. Tanner.

BUSINESS TROUBLES.

Philadelphia, Pa.—Vollers House of Flowers; assets, \$6,000; liabilities, \$12,000. The business will be continued under the management of S. S. Pennock, trustee.



DREER'S

Florist Specialties.
New Brand. New Style.
Hose "RIVERTON"

Furnished in lengths up
to 500 ft. without seam or
joint.

The HOSE for the FLORIST

3/4-inch, per ft., 15 c.

Reel of 500 ft., " 14 1/2 c

2 Reels, 1000 ft., " 14 c.

1/2-inch, " 13 c.

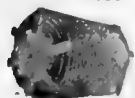
Reels, 500 ft., " 12 1/2 c

Couplings furnished

HENRY A. DREER,

714 Chestnut St.,

PHILADELPHIA, PA.



NON-KINK WOVEN HOSE

In all lengths, 11c per
foot. With couplings. Un-
equalled at the price.
Remnants shorter than 25
feet 19c per foot, coupled.

METROPOLITAN MATERIAL CO.

1892-1414 Metropolitan Ave., Brooklyn, N. Y.

STANDARD FLOWER POTS

If your greenhouses are within 500
miles of the Capitol, write us, we can
save you money.

W. H. ERNEST

28th & M Sts., Washington, D. C.

GREENHOUSES BUILDING OR CONTEMPLATED.

Longview, Mo.—R. A. Long, addi-
tions.

Ithaca, N. Y.—Boal Floral Co., addi-
tions.

Edgerton, Wis.—B. C. Wilson, addi-
tions.

Scranton, Pa.—G. E. Carpenter, one
house.

Omaha, Neb.—Chas. Ederer, four
houses.

Algona, Ia.—August Huenhold, range
of houses.

Cumberland, Ind.—Bertermann Bros.
Co., one house.

Austin, Tex. Hyde Park Floral
Hall, additions.

Grand Island, Neb.—F. W. Blaise,
range of houses.

Saylesville, R. I.—E. D. Tucker, ad-
ditions and alterations.

Garrettsville, O.—H. J. Alford Co.,
two houses, each 29 x 143.

Greenfield Hill, Ct.—D. H. Warner,
Gilbert Hill Farm, one house.

Seattle, Wash. Hollywood Farms,
house, 39 x 325; lean-to, 12 x 75.

Rock Island, Ill. H. H. Hensley,
Center Station, house, 20 x 100.

Tama, Ia.—W. H. Ford, Main street,
range of houses and packing shed.

Greenville, Mich.—Greenville Flora;
Co., range of houses in the summer.

Longmeadow, R. I.—Maplehurst
Greenhouses, additions and alterations.

Shrewsbury, Mass.—Edith E. and
Lillian E. Smith, North street, one
house.

Dayton, O.—Miami Floral Co., S.
Broadway and River road, range of
houses.

Montgomery, Ala.—Rosemont Gar-
dens, house, 30 x 200; two houses, each
17 1/2 x 200.

NEWS NOTES.

S. Norwalk, Ct.—Mrs. Jas. Patience
has leased her greenhouses to David
Moore.

Nashua, N. H.—B. A. Snyder & Co.
Boston, have purchased an interest in
the Gaedeke greenhouses.

Faribault, Minn.—The Faribault
Flower Store has been purchased by
S. G. Kinney, formerly of the Brand
Nursery Co., Owatonna.

MASTICA



For Greenhouse
Glazing
USE IT NOW

F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of
expansion and contraction. Putty becomes
hard and brittle. Broken glass more easily
removed without breaking of other glass
as occurs with hard putty. Lasts longer
than putty. Easy to apply.

PATENTS

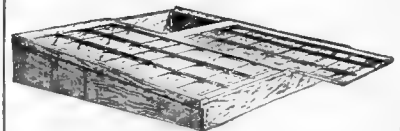
Trademarks
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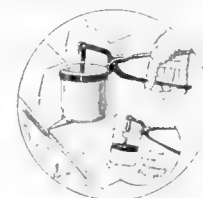
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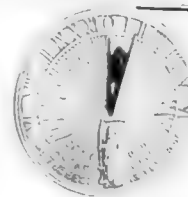
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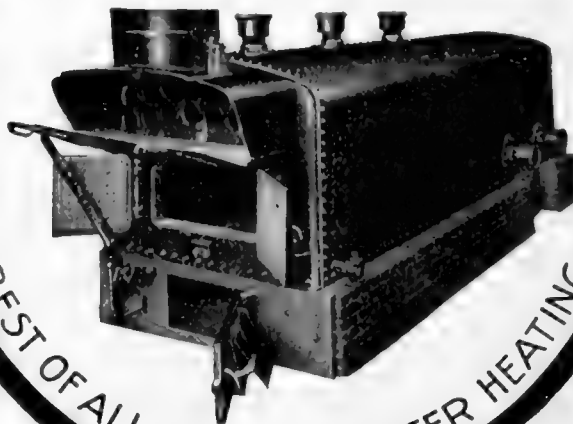
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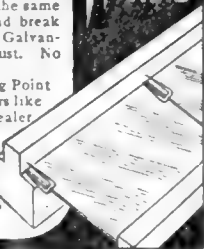
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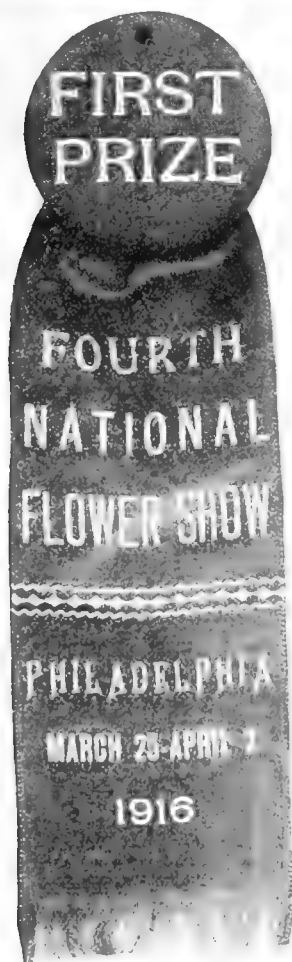
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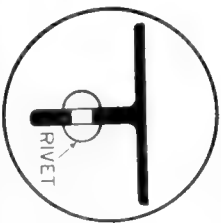
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Vol. XXIII
No. 18
APRIL 29
1916

HORTICULTURE



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NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—Pope.

Care of Orchids

Use judgment now in shading so the foliage will not burn. The amount and frequency of the watering, sprinkling of the floors, etc., will depend largely upon the weather. As the season advances more air will be needed and consequently syringings overhead once or twice a day will be necessary. Air should be left on during damp weather to prevent the young growth from rotting. *Cattleya Trianae*, *Percivaliana* and others, starting action in poor material should be repotted. *Coelogyne cristata* will now have finished blooming and will soon start into new growth. A free cool atmosphere with spraying overhead once or twice a day should be given. Keep all the plants clean by sponging as orchids are very liable to be overrun with insects.

Gardenias

Stock that was propagated in January should now have a shift into 4-inch pots, which will hold them until planting-out time in June. A good compost is fibrous loam three parts, very old cow manure and leaf mold one part each and some sand. Damping down will now be necessary, morning, noon and night, and the plants must be examined each day and watered only if they need it, for even whilst growing, they should not be kept in a saturated condition. Keep temperature of 65 to 70 degrees at night with about 10 to 15 degrees higher with sunshine and have an abundance of moisture in the atmosphere continuously. To attain success with gardening atmospheric conditions play a most important part.

Pot Evergreens

Boxes, laurels, aucubas, hollies and many other evergreens that have been kept in a rather damp shed or house should be placed in a very cool house where they can have plenty of ventilation. Just before the new growth starts they should have some judicious pruning and trimming to correct any imperfections. Syringe freely and give them occasional liquid feeding. Give a top-dressing of loam and cow manure in equal quantities, with a liberal sprinkling of fine bone. Remove as much of the old surface soil as possible and replace with this mixture. The sweet bay—or *Laurus nobilis*—is preeminently ahead of all other evergreens. There is an increasing and continuous demand for evergreens in pots or tubs for inside and outside decorations.

Next Week: Asters; Anthuriums; Chrysanthemums for Large Specimens; Stephanotis; Seedling Amaryllis; Planting Seed Outside.

Poinsettias

Old plants that have been resting since the new year can now be started, shortening back the stems and repotting in as small pots as the roots will permit. Remove all stock plants to a well-lighted bench where there is a temperature of about 65 degrees at night. They can be potted into any good compost. Give each pot good drainage as they will not do well without it. Give them a good soaking of water and then keep rather on the dry side until the plants start into growth and they will soon produce a quantity of cuttings. When cutting in you can use the old-wood cuttings and by placing in a warm frame and keeping the temperature from 65 to 70 degrees, in about three or four weeks they will be rooted. Pot them into three-inch pots using a good loam with one-fourth of rotten manure. Cuttings can be rooted at any time from now until the middle of August. Those propagated in July and August are fine for making up pans, but the earlier ones will give the finest bracts for cutting.

Primulas

The earliest sown primulas are now nice little plants with several leaves. Timeliness in transplanting is a point principally to be observed. Use a compost of equal parts of new soil and leaf mold, with a little well decayed cow manure. Give a light shelf or bench where the temperature will not run over 50 degrees at night. Never let them suffer for want of water and syringe on all fine days. A comfortable spacing out once a week will give them more room to grow. Look every ten days or fortnight for aphids, and where they are seen fumigate immediately. In about six weeks they should be ready for two-inch pots, using a compost of fibrous loam four parts, cow manure and leaf mold one part each. They are benefited by a light shading during the hottest part of the day. Give air daily whenever possible always avoiding cold draughts and do not try to force them.

Late Propagation

All such stock as coleus, pelargoniums and zonale, variegated or rose geraniums, lantanas, bouvardis, verbenas, etc., can be rooted within the next ten days and make fair stock for late sales. Also put in cuttings of hydrangeas, chrysanthemums, fuchsias, heliotropes, etc. Where these are not sold they will make fine plants for planting out.

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St. Louis' The St. Louis wholesalers are certainly long on courage, if our news notes tell the nerve truth about their Easter performance. It takes some "sand" to refuse to open up

and do business on Easter Sunday morning in the face of the allied forces of retailers and growers. It is a problem hard to deal with but we are of the opinion that it would be better in the long run for all interests if the flower markets should all close up tight on Sunday throughout the year, except for the care of shipments arriving unavoidably on that day. A few sales might be lost but, on the other hand, the retailer wish-

ing to be prepared to meet some emergency call on Sunday would then find it necessary to lay in a supply on Saturday for that purpose, something he need not do now when the wholesaler is willing to carry stock subject to his call. The great difficulty is in getting all to agree and to stick to the agreement and that is where St. Louis seems to have accomplished something noteworthy.

Half The old notion that only a very limited number of varieties could be profitably grown for commercial cut flower use seems now to have been pretty well refuted, as will be plainly evident to anyone who has opportunity to observe the great variety of stock offered in the wholesale marts from day to day. Each season has its crop of comparatively new things which are put forward for popular favor by growers who are not willing to stand still and simply follow along in the same ruts as their neighbors. The only way, however, to compel attention and give a new subject a fair start is to show it at its very best and in adequate quantities to make an impression. There can be no more effectual way for permanently injuring the prospects of any new candidate for popularity than by introducing it in inferior quality. Far better not to touch it at all until it can be done well. There is in any case a certain amount of risk to be assumed in the preparing and placing on the market of any new thing but the possibilities of failure will be largely decreased by the exercise of good judgment as to the time and place and other circumstances attending the debut, but most of all by showing the goods in a degree of quality as near to perfection as can possibly be attained.

Busy The great spring floral festival having passed into history, other activities times ahead scheduled for the weeks which intervene between now and the summer quietude will now claim attention. In many places Memorial Day holds a prominence scarcely less than that of Easter and in such section the production of well-grown crops of appropriate material that can be depended upon as to time, regardless of the condition of outdoor products, can hardly be overdone. We presume that unwisely promoted enterprise—Mother's Day—will also call for more or less advance preparation in some circles. June weddings and school graduations too, are only a few weeks removed and there are strong indications that the amount of garden planting done this season will be of unprecedented extent, in both hardy and tender material. In the way of exhibitions all past records for a similar period of the year will be beaten. Boston's big May show, the notable garden exhibition at Pelham Bay Park, New York, in early June and the four proposed sweet pea shows of June and July are all outstanding affairs that will help to keep things stirring horticulturally as never before. All America will have to stay at home this year and this grand opportunity, the like of which will never occur again, to push horticulture into the foreground as a rational and all absorbing substitute for foreign travel and attendant diversions must not be neglected in any respect if we are to extract from it the full advantage which lies so easily within our reach. "Make hay while the sun shines."

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur C. Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Keep the Fires Going

Do not let the fires go out as soon as the first few days of warm weather come around. This may save a little coal but the plants will suffer in the end, getting a dose of mildew almost without fail. It will do the houses no good to run cold at night, with the damp chilly air creeping in from the outside. With the houses planted late there will still be a good many roses to cut before they are replanted and if these roses can be kept free from mildew and be of good quality otherwise, there will still be quite a little money coming in. The amount of coal consumed will be very little compared to the good it will do the plants. With good boilers which are big enough the fires will not need much attention at night and arrangements to care for them can be made even on a small place having no regular night man in the spring and summer. It is a little more difficult to fire with small coal as the boilers cannot be loaded down with it but where larger coal is burned it is very simple to load up to last for four or five hours. If there is no steam in the houses shut off some of the hot-water pipes, thus directing the circulation into one or two coils, giving these circulation which would be impossible to secure with a low fire and the whole system turned on. In turning off some of the pipes on the hot-water system some thought should be given to the effect that the remaining pipes will have on the distribution of heat. Conditions vary, and in some localities the wind will hit the houses in such a way as to make it necessary to use the coils in the center of the house instead of the coils around the wall as is customary.

Pot-Bound Plants

Even with careful planning there may be a batch of plants that will come a little ahead of time, and as they are in the largest pot it is not possible to shift them again until after they are planted, or it may be that room has to be made before a certain lot of plants can be shifted into larger pots. In either case the plants will likely become pot-bound and will receive a severe check both in growth and in root as well. To prevent this a light dressing of bonemeal every week will keep them moving until a time when they can be either plant-

ed or repotted. Of course it is much better for the plants to be potted or planted on time and the method mentioned above should be used only in emergencies and should not be practiced except when circumstances prevent work being done on time. In applying the bonemeal make sure that it is put on evenly so that all the plants will receive about the same amount. This will insure even growth, and prevent some plants from getting stunted while others are making too much growth. Liquid manure had better not be used on pot-bound plants, as it will likely produce a lot of very rapid and weak soft growth which will be easy prey to mildew. Water the plants before the bone is applied and do not apply it until the foliage is thoroughly dry, so that there will be no bonemeal sticking to the leaves. Water the plants directly after it is applied, so as to get it into the soil and to remove what little dust there may be sticking to the leaves here and there.

Care of Outdoor Roses

Many growers have quite a number of plants growing outside mostly for cut flowers in the summer, to go out on small orders when greenhouse roses are scarce. There is no better time than now to go through these and pull out all the perennial weeds that may have established themselves among the plants last summer. These can be easily pulled up now while the ground is still moist, something which will be almost impossible after the ground dries out a bit. If the plants have not been pruned as yet it is time to do it before many of the buds start. The mulch they received last winter can be left right among them, thus doing away with a good deal of hoeing and also keeping the soil cool for the roots to work in. To save space it will be best to have these roses planted about as they are in the greenhouse benches, with paths between every four or five rows. The walks should be higher than the beds instead of lower unless the roses are planted in very wet ground. The higher paths will be welcome if the plants have to be watered with a hose as the water will quickly drain to the plants leaving the paths dry. A line of irrigation nozzles put up over the rose beds will pay for itself the first season, not only in the time saved but also because it will insure water when the plants need it.

VISITORS' REGISTER.

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Washington, D. C.—Hugo F. Houftman, Juliana Nurseries, Boskoop, Holland; T. A. Warne, Floral Nurseries, Bristol, Pa.; L. B. Brague, Hinsdale, Mass.; representative of the Lakin Floral Co., Syracuse, N. Y.

By moving and replacing many of the trees on the campus, the landscape gardeners at the University of Wisconsin plan to make a number of changes this spring that will enhance

the beauty of the university grounds. Many of the trees are crowded and the plan is to take these away and plant others where they can grow as they should. Linden Drive, which leads to the College of Agriculture, will be widened from twenty to forty-eight feet. Many red and white pines and evergreens will be secured from the state conservation department and planted in various places on the campus. A pine plantation will be established on Eagle Heights, about three miles from the main campus. Trees in other positions will be moved and many will be transplanted to the lake shore to shield the power house

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

The regular Lent meeting of the executive board of the society was held at the Hotel Walton, Philadelphia, March 28 and 29. With two exceptions, every member was present, as follows:

Donald McElroy, president, San Francisco, Cal.; R. C. Kerr, vice-president, Houston, Tex.; John Young, secretary, New York, N. Y.; W. F. Kesting, treasurer, Buffalo, N. Y.; J. J. Hess, director, Omaha, Neb.; J. A. Peterson, director, Cincinnati, O.; Wm. R. Nicholson, director, Framingham, Mass.; W. J. Keimel, director, Elmhurst, Ill.; Angelo J. Rossi, director, San Francisco, Cal.; Chas. L. Baum, director, Knoxville, Tenn.; S. S. Pennock, president, American Rose Society; Joseph H. Hill, president, American Carnation Society; Irwin Bertermann, president, Florists' Telegraph Delivery; Henry Weston, president, New York Florists' Club; Patrick Welch, past president, Boston, Mass.

And in addition there were present: Ex-Presidents Geo. Asmus, Theodore Wirth and Frank H. Friendly, and the Washington representative, W. F. Gude.

Reports from the secretary and treasurer were presented and accepted, both showing the affairs of the society to be in excellent shape. Recommendations made by the treasurer in regard to certain of the society's securities were approved and adopted. The reports were referred to an auditing committee.

The committee on proposed amendments to the Constitution and By-Laws, Theo. Wirth, chairman, presented a lengthy report covering changes recommended at the San Francisco convention. After considerable discussion these amendments were all adopted for submission to the Houston convention.

The following are the articles and sections as amended:

AMENDMENT TO ARTICLE V.

Article V. Meetings.

Section 1. At the thirty-second annual meeting, to be held August 15 to 18 in Houston, Texas, the meeting places for the years 1917 and 1918 shall be selected by ballot, and at the meeting of 1917 and at every meeting thereafter, the meeting place for the second year following that meeting shall be so selected.

The balloting shall be done at the evening session of the first day of each annual convention.

The time for the annual meeting shall be the third Tuesday of August in each year, continuing for three days, or until all business is completed.

The city applying for the meeting shall, with its written application, provide the free use of a place for the purposes of a convention garden, which place shall be available, if desired, from the early spring of the year before the meeting to the late fall of the year of the meeting.

AMENDMENT TO ARTICLE II.

"Article II. Section 2. Elections and Appointments. Paragraph (a).

The president, first vice-president, secretary, treasurer, and two directors shall be elected by ballot at the annual meeting of the society, and their term of office shall begin with the first day of January next succeeding the election. The term of office of the president, vice-president, secretary and treasurer shall be one year, and the term of office of the directors three years, or until their successors are duly elected and qualified.

Section 3. Duties of Officers.

(a) President.—The president shall preside at all meetings of the society, and exercise a general supervision of its affairs. He shall report from time to time such measures as seem necessary for promoting its objects, and extending its usefulness.

He shall annually, on the first day of January, appoint one botanist, one entomologist, one vegetable pathologist, and one state vice-president for each state or territory represented in the society; he shall act as chairman of the executive board at its meetings and sign all diplomas and certificates of the society.

Section 2. Elections and Appointments. Paragraph (b).

The president shall appoint on the first day of January of each year, or as soon afterward as may be possible, one or more state vice-presidents from each state and territory represented in the membership, to serve for a term of one year. Clubs, societies or kindred organizations of professional florists, gardeners and horticulturists, having paid up membership of one hundred or more members in the S. A. F. and O. H., shall be entitled to one representative on the board of directors. Such representative shall be the president of such organization and must be a member of this society. Any elective officer or appointed director shall not be eligible as a representative of such organization. When the president of any such organization is already a director, the vice-president shall be eligible for the office. Any organization applying for representation shall submit to the secretary of this society a certified copy of the resolution adopted by their organization that they wish such representation on the board of directors, together with a complete list of its membership. It shall be the secretary's duty to confirm same and submit it to the president for final confirmation. Announcement of such director shall be made by the president.

AMENDMENT TO ARTICLE II.

Article II. Officers, Their Election and Duties.

Section 2. Elections and Appointments. Paragraph (d).

The secretary shall cause official ballots to be prepared according to the "Australian" form containing the names of all candidates nominated for the various elective offices. Balloting shall take place at the morning session of the third day of the annual meeting. The secretary shall prepare four election books, in which the names of members eligible to vote are alphabetically arranged. Book 1 to contain all names from letter "A" to letter "D" inclusive. Book 2 to contain all names from letter "E" to letter "K" inclusive. Book 3 to contain all names from letter "L" to letter "R" inclusive. Book 4 to contain all names from letter "S" to letter "Z" inclusive. The secretary shall provide one ballot box for each book. The president or presiding officer shall appoint one checker for each book, and one receiver for each ballot box, and one judge of election, who shall have charge of the checkers and receivers, who together with him, form the election board. They shall, after the close of the polls, assort and count the votes cast and report the results to the convention. The polls shall remain open from 10 A. M. to 11 A. M., or until all legal voters in line at that time shall have an opportunity to cast their votes. A majority of all the votes cast shall be necessary for an election; and the president or presiding officer shall declare who is elected. In case of failure to elect on the first ballot, the president shall order a new ballot immediately, polls to remain open one hour; should this ballot fail to elect, the president shall order a third ballot, polls to remain open one hour; this ballot shall be limited to the two candidates receiving the highest vote on preceding ballot.

AMENDMENT TO ARTICLE III.

Government, Executive Board.

Between the sessions of the society its government shall be vested in an executive board, consisting of the president, junior ex-president, first vice-president, secretary, treasurer, and the board of directors, etc., etc.

AMENDMENT TO ARTICLE II.

Election and Appointment of Officers, Directors, and Committees, and Their Respective Duties.

Section 4. Standing Committees and Their Duties.

Paragraph (a). Standing Committee on

Convention Garden. The president assuming office January 1, 1917, shall appoint three members, one serving three years, one two years, and one one year. Each next elected president when taking office shall appoint one member to serve three years. This committee shall have full charge of all convention garden arrangement work under the direction of the executive board. The members shall elect their own chairman, and shall be subject to the call of the president and the executive board.

Paragraph (b) Publicity Committee. The president assuming office January 1, 1917, shall appoint five members, one to serve five years, one four years, one three years, one two years, one one year. Each next elected president when taking office shall appoint one member to serve five years. The members shall elect their own chairman.

It shall be the duty of this committee to keep up an efficient campaign of proper horticultural and floricultural advertisement along educational and progressive lines, in trade papers, periodicals, and the press in general.

Paragraph (c) American Horticultural Products Committee. The president assuming office January 1, 1917, shall, and each next elected president upon taking office shall, appoint three members to serve one year.

It shall be the duty of this committee to advocate, induce, promote, and assist in every possible way the production in this country of horticultural products now imported from foreign lands.

NOTE. The committee believes that all other standing committees created by the society at its different annual meetings should be classed under this new Section 4.

Vice-President Kerr made a lengthy report covering the plans and arrangements made for the housing of the Houston Convention and Trade Exhibition. The convention hall, he said, would provide an area of 20,000 square feet for display space, which he thought would be ample. The hall was located three blocks from Rice's Hotel, which would be headquarters, and five blocks from the convention garden, he said, was in active progress, and its success was practically assured. Some action had been taken, he said, in regard to getting low railroad rates to Houston, and it seemed quite probable that a one and one-third rate would be secured over all railroads in the United States.

The committee on convention garden was appropriated a sum not to exceed \$500 for purposes of the garden.

The first business at Wednesday morning's session was the reading of the report of the auditing committee, which found the reports of the secretary and treasurer to be correct, and complimented these officers upon the efficient work shown in the reports.

The matter of arrangements for the trade exhibits at Houston was again discussed, and it was decided to make the rate for exhibition space 40 cents per square foot.

The publicity committee, through its chairman, Irwin Bertermann, reported progress. The committee had not had a full meeting. Consequently, a report could not be presented at this time. Mr. Bertermann, however, made a short address in which he embodied his personal ideas. It was evident that the prevailing idea as to

a publicity campaign was that its cost was not within the reach of the society. He was of the opinion that a small beginning might be made through the employment of a capable man, well versed in matters pertaining to the business, with compensation of five hundred to one thousand dollars per year for his services, and he made this recommendation. A very lengthy discussion of this proposition ensued. Finally, on motion, it was decided that a publicity man be engaged to operate under the direction of the secretary at a salary of fifteen dollars per week, with the approval of the publicity committee, any legitimate expenses to be vouched for by the chairman of the committee; and, further, that if the committee should see fit to send out an appeal for funds to carry the campaign further, it is authorized to do so.

A communication from the Mothers' Day International Association, Inc., was read asking the society to co-operate with the association in giving publicity to the proper day for the celebration of "Mothers' Day," the second Sunday in May, and the fact that the emblem of the association was the white carnation.

On motion of Mr. Kasting, the board unanimously acceded to the request, and a copy of the resolution was immediately given out to representatives of the daily press and Associated Press.

The following appropriations were made:

Office of Entomologist	\$100.00
Office of Pathologist	100.00
Office of Botanist	100.00
Members' buttons	100.00
Clerical assistance at convention	100.00
School garden committee	100.00
Legislative committee	100.00
Sergeant-at-Arms	50.00
Sports committee	50.00
Secretary's office, as usual	
Official stenographer	
(Traveling expenses additional) ..	125.00

The question of further support of the Mothers' Day movement instituted by the association headed by Miss Anna Jarvis was discussed at length, and, on motion, the secretary was instructed to send an appeal to all the members of the society for a subscription toward the Mothers' Day fund.

The secretary was directed to invite the presentation of two essays at the Houston convention.

Adjournment was then taken until after luncheon.

At the final session many matters tending to make the work of the society of greater service to its members were considered, among them the compilation of a trade directory which should be reliable and strictly up-to-date. Some earnest discussion upon the subject ensued, resulting in the carriage of a motion that a committee of three be appointed to look into the advisability of the issuance of a trade directory by the society, or any other publication, the committee to report at the Houston convention.

The secretary was instructed to prepare an Order of Business for the Convention, and another one for the meetings of the executive board, anything not covered to be proceeded with under Roberts' "Rules of Order."

Prof. H. B. Dornier, of the University of Illinois, Urbana, was present, and was given the privilege of the floor. The Professor explained that he appeared before the board as the representative of members of the society

DAHLIA GERTRUDE MANDA.



NEW DAHLIA GERTRUDE MANDA.

Raised by W. A. Manda.

The dahlia depicted on this page is one of a sensational set of novelties raised by W. A. Manda, South Orange, N. J., and introduced by him last year. The color is a luminous peach-

blow and, as the picture indicates, the flower is of medium size carried on long, graceful stems and well adapted for decorative use as a cut flower. It sold well in the New York cut flower market last fall.

connected with the faculties of different universities and colleges who desired, in the interests of the society, to organize a section to be composed of all members interested in educational and research work pertaining to the profession. The group was strongly interested along certain lines, the work being sufficiently important to warrant the support of the society to the extent of making it a section and furnishing accommodations in the way of quarters for its members at the society's different exhibitions, where contact could be had with florists and others having problems which merited the active interest of such a section. Such a section, he suggested, should be known as the "College Florists' Section." The proposition proving favorable to the board, the section as stated was on motion authorized.

Other matters were considered informally, taking up the time of the board until adjournment. At the close of the meeting Mr. Welch pointed out that his membership on the board was practically then expiring and in a graceful speech expressed the pleasure he had experienced in meeting at different times with his brother members and his regret at not being able officially to continue with them, but he was satisfied that the affairs of the society were in good hands and the organization would be kept moving along progressive lines.

After a motion directing the secretary to transmit a letter of thanks to the local organizations for courtesies shown to the board, adjournment was taken to Monday, August 14, at Houston.

Department of Plant Registration.

Public notice is hereby given that, as no objection has been filed, the following registration becomes complete: Rose Bedford Belle, by the Bedford Flower Co., Bedford Hills, N. Y.

JOHN YOUNG, Sec.

April 16, 1916.

PERSONAL.

A. C. Boje, formerly of Magnolia, Mass., has removed to Cedar Crest Farm, Trapelo Road, Waltham, Mass.

A. R. Cosh, gardener for Mrs. C. D. Sias, of Wenham, Mass., was united in marriage to Elizabeth C. Barry on Wednesday, April 26th.

John R. Jefferies, formerly employed as gardener at the Philip Dexter estate, Gloucester, Mass., has accepted a similar position at East Milton.

Frank Coles, formerly with some of the leading florists of Boston, has entered the employ of Mrs. Woodward at the Flower Shop, Taunton, Mass.

PUBLICATION RECEIVED.

American Carnation Society—Proceedings of the 25th annual meeting, held in St. Louis, Mo., on January 26 and 27, 1916. A 92-page report that will measure up well with the preceding yearly issues. A portrait of President Joseph Hill, and full page illustrations of Crystal White, Nancy, Belle Washburn and Laura Weber carnations and of a retail display at St. Louis give pictorial spice to the book. The proceedings are reported verbatim.



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CLUBS AND SOCIETIES

NEW JERSEY FLORICULTURAL SOCIETY.

The regular monthly meeting was held April 18th in Mechanics Hall, Orange. Peter Duff, Jr., was elected to membership. An essay entitled "Estate Management and the College Graduate," by Morrell Smith, of New York, was read. Max Schneider received the following points on his exhibits: Sweet peas, 65; stocks, 95; carnations, 90; *Primula obconica grandiflora*, 85. The judges were Fritz Berglund, Emil Panuska and William Reid. GEO. W. STRANGE, Sec.

CLUB AND SOCIETY NOTES.

B. Hammond Tracy, of Wenham, Mass., delivered a lecture on "Gladoli" at the regular monthly meeting of the Rhode Island Horticultural Society last week.

The Retail Florists' Association met last week to further discuss the details of the flower show to be held in Reading, Pa., Nov. 2-4. The location of the show has not as yet been decided upon. This committee is in charge of the arrangements: Fulmer Lauck, Clayton Butts, Philip Loundon, Jacob Bauder, Lee Arnold, Harry Heck and Stanley Giles.

The last lecture of the season was given before the Medford, Mass., Horticultural Society on the evening of April 25, by Wm. N. Craig of Brookline, Mass., on Outdoor Annuals and How to Grow Them Successfully. He spoke in a very entertaining manner for about an hour and by the number of people in the audience the writer observed taking notes, the practical information imparted will be made use of the coming season. At the close of his lecture Mr. Craig answered many questions on other matters of horticultural interest to his hearers. One of our amateurs said to me that such practical lecturers as Mr. Craig should be widely known in the cities and towns of our Metropolitan district, as it is just the kind of information a beginner is in need of and is so much

Meetings Next Week

Monday, May 1.

Bernardsville Horticultural Society, Bernardsville, N. J.
Elberon Horticultural Society, Fire Hall, Elberon, N. J.
Houston Florist Club, Houston, Texas.
Montreal Gardeners' and Florists' Club, Montreal, Canada.
New Bedford Horticultural Society, New Bedford, Mass.
Florists' Club of Washington, Washington, D. C.

Tuesday, May 2.

Lake Geneva Gardeners' and Foremen's Association, Lake Geneva, Wis.
Los Angeles County Horticultural Society, Los Angeles, Calif.
Paterson Floricultural Society, Paterson, N. J.
Florists' Club of Philadelphia, Philadelphia, Pa.
Pittsburgh Florists' and Gardeners' Club, Pittsburgh, Pa.
State Florists' Association of Indiana, Anthony Hotel, Fort Wayne, Ind.

Wednesday, May 3.

Tuxedo Horticultural Society, Tuxedo Park, N. Y.

Thursday, May 4.

Southampton Horticultural Society, Southampton, N. Y.

Friday, May 5.

North Shore Horticultural Society, Manchester, Mass.
North Shore Horticultural Society, Lake Forest, Ill.
Pasadena Horticultural Society, Pasadena, Calif.
Yonkers Horticultural Society, Yonkers, N. Y.
People's Park Cottage Gardeners' Association, Paterson, N. J.

Saturday, May 6.

Pacific Coast Horticultural Society

COMING EXHIBITIONS.

May 10, 14, Boston, May Show, Mass. cluserts Horticultural Society Horticultural Hall.

better to get it first-handed than from books. Such remarks I think are encouraging to these gentlemen who so willingly give their valuable time and experience for the uplift of Horticulture.

GEORGE F. STEWART.

T. J. NOLAN

The accompanying portrait is of T. J. Nolan, representative of the King Construction Co. of North Tono-



T. J. NOLAN.

wanda, N. Y. Mr. Nolan is well known among the florists and he made many additional friends at the recent Philadelphia National Flower Show, where the King Construction Co. had a very fine exhibit.

NEW CORPORATIONS.

Council Bluffs, Ia.—Meneray Nurseries, capital stock, \$10,000. Incorporators, L. A., F. W. and A. O. Meneray.

St. Paul, Minn.—Northern Nurseries, capital stock, \$50,000. Incorporators, C. A. and E. W. Bazille and A. Sjöholm.

Shelby, Tenn.—Johnson Greenhouses, capital stock, \$10,000. Incorporators, O. C., W. C. and F. B. Johnson, H. M. Barfield and T. Hardaway.

Manchester, N. H.—Sheffield A. Arnold, a Boston landscape architect, has been engaged to make preliminary plans for the laying out of Walker Park.

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A very Serviceable Coat.
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Comes in Navy Blue or Covert Tan.
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(See Illustration.)
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Single Texture—Extreme Light Weight—Comes in
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Kansas City, Mo.—Fabian Flower
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Rochester, N. Y.—New York Cut
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Beverly, Mass.—Beverly Flower
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Philadelphia, Pa.—E. R. Martin, 1725
Chestnut street, succeeding Vollers'
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NEWS NOTES.

Montreal, Que.—L. H. Goulet has
purchased the business of the Cana-
dian Floral Co.

Providence, R. I.—A wholesale flower
store has been opened at 39 Clem-
ence street by Olney H. Williams and
John Burke.

Randolph, Mass.—Alfred Tucker had
a patch of some 50,000 pansy plants
practically destroyed by wild deer rac-
ing through them one night last week.

Cincinnati—E. A. Fiske has the
formal opening of his new store at 138
W. 4th street on May first. He is mov-
ing right into the shopping district and
the move should prove a good one.

New York—The use of little flower
baskets with glass or zinc holders, was
very general in the high-class retail
stores and this used up large quanti-
ties of the miscellaneous flowers such
as pansies, primulas of various species,
ericas, calendulas, myosotis, centau-
reas, mignonette, daisies, midget roses
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St.

Albany, N. Y.—William C. Gloeckner, 97
State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 37-43 Brem-
field St.; 124 Tremont St.

Boston—Zinn the Florist, 4 Park St.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th
St.

Cleveland, O.—The Smith & Feters Co.,
735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643
Broadway.

Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

New London, Conn.—Reuter's.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. B. corner 44th St.
and Madison Ave.

New York—Max Schling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.

New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

Rochester, N. Y.—Salter Bros., 38 Main
St., West.

San Francisco—Pellicano, Rossi & Co., 123
Kearny St.

St. Louis, Mo.—Fred C. Weber, 4526-28
Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Washington, D. C. George H. Cooke,
Connecticut Ave. and L St.

Westerly, E. I.—Reuter's.

Worcester, Mass.—H. F. A. Lange.

Worcester, Mass.—Randall's Flower Shop,
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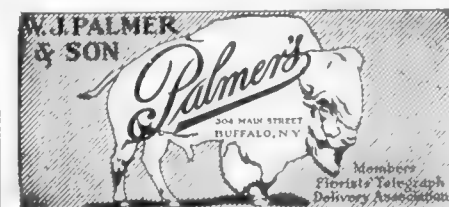
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EYRES
Flowers or Design Work

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ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.



NEWS ITEMS FROM EVERYWHERE

PHILADELPHIA

Conner and Wood, who travel under the alias of Leta & Barnham Co. have been expected to busy this spring, and have had so many calls and estimates to make, that there has been scarcely time to eat or sleep. Serves them right. They ought to have had better luck. Mr. Woodward expects to start on a southern trip on the 25th inst.

H. H. Battles reports the Easter trade this year the best he ever experienced. On Friday he closed one of his stores and in another pulled the blind down on the center window—so that the passerby would not know it was a flower store.

Pennock Bros. by Saturday morning were pretty nearly sold out of everything; even short-stemmed lilies were being picked up by eager customers. Mr. Cartledge and Mr. Pennock were both in genial humor and wore tired, yet happy, smiles.

E. J. Fancourt, for the wholesalers, reported that both the local and shipping trade had been big beyond expectation. He attributed a good deal of the local enthusiasm for flowers among the general public to the splendid publicity given to the business by the recent fine exhibition of the S. A. F. in this city. It pays to advertise although there is often lots of grumbling at paying the bills.

The H. F. Michell Co., have completed the improvements in their new warehouse. It is adjacent to the principal steamship wharves and important freight stations and is expected to revolutionize, to a great extent, their work in handling business. They have given out a contract for a large garage and office at the nursery, at Andalusia and have also installed what is practically the second machine of its kind in the United States, known as a grass mixer. In five minutes, they can thoroughly mix a batch of 1500 pounds of grass seed; which, after being mixed, is discharged into an elevator which travels and deposits the seed in a large bin upstairs, from which it is drawn by spouts the same as feed is drawn from a grain elevator. The contrivance is driven by a 7½ H. P. motor; it is practical and should be a tremendous labor-saver.

FLOWERS BY TELEGRAPH

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CALIFORNIA

Pelicano, Rossi & Co.
129 KEARNY ST.

F. R. PIERSON CO.
FLORISTS AND
PLANTSMEN

TARRYTOWN-ON-HUDSON, N. Y.

PITTSBURGH

Anthony Leach, superintendent for Henry J. Heinz, spent a part of last week in New York.

George Porter, an employee of the McCallum Company, had his left eye removed and a cataract in the right eye reduced last Friday in St. Francis Hospital.

Pittsburgh's three big Easter flower shows eclipse those of any previous season. Each seems superlatively beautiful and is so distinctive in its way and unlike the others that comparisons are impossible. Supt. Geo. W. Burke and his foremen, John W. Jones and James Moore, respectively of the Schenley and West Parks conservatories, are certainly most deserving of the congratulations which are showered upon them by the multitude of admiring visitors from both home and abroad. At Schenley Park, the Victoris Regia house is temporarily transformed into an enormous mound of lilies surrounded by water. The border line is of Queen Alexandra spiraea, and baby rambles here and there emphasizing the pure white of the dominating lilies. In the Nymphaea house are three mounds formed of blue, white and pink French hydrangeas respectively. In the rose house rambles, hybrid tea roses, Azalea mollis, boxes, hydrangeas and astilbes are charmingly arranged.

A brilliant Holland garden now occupies the west wing of the Economic house. In the midst of the garden is a thatched Dutch house surrounded by double daffodils and five elevated circular mounds of narcissus. This end is backed up with flowering shrubs, iris, columbine, etc. The south wing of the Economic house forms the Children's garden. The garden itself includes four beds of pansies, baby rambler roses, lilies and herbaceous plants and shrubs. In the west end of the building is a fine display of Brazilian caladiums, dendrobiums, gloxinias, etc. Cinerarias predominate in the south wing. The azalea house too, is a mass of bloom.

As usual, the educational feature of the West Park show shows an unkempt house and grounds on one side, while on the other is a remodelled place. The rose house is charmingly trellised and arched with rambler roses. The French hydrangea display is given variety by tall plants of Nicotiana glauca, and an elevated center of genistas.

The most distinctive show room of the Heinz conservatory forms a sunken garden of great beauty, the extreme background showing small cherry and apple trees, rhododendrons, lilies, spiraea and azaleas. Flowing down the sides is a waterfall ending in a charming pond.

CHICAGO.

Shakespeare's statue in Lincoln Park was the resting place of a large number of wreaths, bouquets and pot-

ted plants on the 22nd, the gift of numerous clubs and societies.

The flower sale for the destitute crippled children, which took place on the day before Easter, netted that worthy cause eight thousand dollars.

Ed. Hanswirth, for many years in the florists' business in Chicago and lately employed in the wholesale market, has again embarked in business for himself at Fort Wayne, Indiana.

The extremely small roses are in great favor this season. As a leading wholesaler said, extremely large or the tiniest of the small roses, are the fancy of the moment. Of the latter the little Sweetheart rose in pink is having a great run, the result of the size, color and name combination, and its companion in yellow, the Mrs. George Elgar is very popular. Made up in the small colonial corsage bouquets or used alone they are dainty and beautiful, but require skillful handling.

Early last Saturday morning the store of the George Wittbold Co., was entered by way of the basement, by three burglars who tried by brutal treatment to force the night watchman, John Popescu, to turn over the money. He refused and was beaten almost into insensibility and left bound in the basement. The robbers left without getting any plunder and Popescu worked himself loose and went to notify Louis Wittbold. No trace of the robbers has been found. The watchman was taken to the Alexian hospital where he was found to be severely injured. The firm has been doing a big business all the Easter week and a thousand dollars was in the safe.

BOSTON.

John J. Curley of Roxbury is one of the jury in the Cohen murder trial in the Superior Criminal Court.

Henry M. Robinson starts for the South the latter part of this week on his annual trip for ferns and galax. Mr. Robinson will be gone for about a month.

A very interesting collection of plants and flowers mentioned in Shakespeare's plays, made by Mr. Thomas T. Watt, was on exhibition at the Shakespeare Tercentennial exercises held at Wellesley College, April 22. They were la-

HIGH GRADE PLANTS

For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.

NEW CROP FERNS

Fancy, \$1.35 per 1000
Dagger, 1.15 " "

Special price on regular orders for quantity shipments.

CALDWELL THE WOODSMAN CO.
Evergreen, Ala.

SOLD OUT?

OF COURSE, if you stocked up before Easter with **BAYERSDORFER QUALITY Goods**. But we are all ready for you again with After Easter Supplies.

Baskets in Wonderful Variety of Shape and Tint, Brazilian Willow Baskets, Porto Rican Mats, Silk Fibre Ribbon, Japanese Novelties in Decorative Material, Memorial Day Staples, etc., etc.

Send for Silent Salesman's Supplement

THE FLORISTS' SUPPLY HOUSE OF AMERICA

H. BAYERSDORFER & CO., 1129 Arch Street, PHILADELPHIA, PA.

beled with the quotations from the plays.

If we are to judge by the various reports made by the retailers and wholesalers Easter of 1916 was a highly successful one. The one sad feature of the affair was the heavy rain of Saturday and this alone prevented many from breaking all former records for business. Violets, owing to the late date of the festival, were scarce and of a poor quality so the public must needs look elsewhere for a substitute. Sweet peas, according to what Henry Penn says filled the gap most admirably. Julius Zinn states that bulb stocks were much in demand, and Mr. Slattery of Galvin's reports an unprecedented sale of pot roses. The Boston Cut Flower Store cleaned out on nearly everything and Mr. Rosenthal, or rather Mrs. Rosenthal—said that the only regret to be registered was the poor weather on Saturday which prevented many buyers from coming out.

With the wholesalers all went well. P. Welch and Welch Bros. both report a tremendous shipping trade on Wednesday and Thursday, for lily plants especially. The H. M. Robinson Co. worked all day and half through the night from the first day of the week till the last, in getting their orders out. B. A. Snyder claims a clean sweep. McAlpine & McDonald, handled double the quantity of lily of the valley and lilies they did last year. Wm. Molloy, manager for the Budlong Rose Co., states that 90,000 roses would be a conservative estimate for their week's sales. A marked preference for Scott Key and Hadley was shown by purchasers and consequently a shortage of these varieties resulted—as we predicted last week. The Polyanthus primrose was eagerly bought up. Evidently it has come to stay as an Easter

favorite. It is safe to say that the florists of Boston never had a more prosperous Easter.

NEW YORK.

J. H. Small & Sons remove on May 1 from the store which they have occupied on Broadway for twenty-five years to a new and very desirable location at 505 Madison avenue, corner 52nd street.

By mutual consent, the firm of Henshaw & Fenrich will dissolve April 29th. Joseph S. Fenrich will do business under his own name at 51 W. 28th street, and A. M. Henshaw will operate the Henshaw Floral Co. at 127 W. 28th street.

Anglin & Walsh Co., who recently established their office at 335 Broadway, will remove on May 1 to Williamsbridge where they will have business facilities and room not available in a downtown office. Fine callas and freesias are leading specialties with this firm by whom many of the large dealers are supplied with these goods in quantity.

With the smaller growers of plants for the cheap markets the Easter result was not very pleasing. Saturday morning saw a long line of them at Union Square standing in the cold drizzling rain waiting for buyers who did not materialize. What eventually became of the tens of thousands of geraniums, lilies, azaleas, hyacinths, genistas, pansies and daisies which turned Union Square into a vast kaleidoscope of color on that inclement morning, we know not.

In May, 1915, McHutchison & Co., purchased the building at 95 Chambers street, and running through to 77 Reade street—a full block long. The building consists of five floors and

basement and sub-basement. They will occupy the full first floor on May 1st—27 by 150 feet. Since they commenced business fifteen years ago McHutchison & Co. have moved four times, and each time have doubled the space occupied. We shall not be surprised if in due time the entire building on Chambers street is required to accommodate the business of this hustling concern.

WASHINGTON.

Pink and yellow snapdragon is in one favor among society for use in high-grade dinner and like decorations.

Leo Geier, who is employed at the store of Gude Bros. Co., met with the loss of his father, Bernard J. Geier, last week.

John Robertson, Dewey Strong and Milton Robertson, three employees of Fred H. Kramer, all colored, received treatment at the Freedmans Hospital last week following a collision with an electric light pole by the wagon in which they were riding when the horses ran away with them.

Following a custom inaugurated shortly after they first entered into business, Gude Bros. Co. threw open the doors of their greenhouses in Anacostia to the public on Palm Sunday. Hundreds of visitors took advantage of the firm's invitation, the attendance being greater than ever before.

A bill has been introduced which would make it unlawful for any person to labor or to employ any person to labor or to pursue any trade or worldly business on Sunday, except in works of necessity or charity, newspaper publishers, public service corporations, and also persons who are accustomed to observe regularly some other day of the week on which they refrain from doing what in the bill is prohibited on Sunday.

A Florist's Necessity **HART'S HANDY HANDLE**

Fits securely on any standard pot and by the use of a little chif-fon or ribbon gives you a Basket effect at a very small additional expense, increasing the price of your plants 100 per cent.

1	12 inches high, \$2.50 per doz.	4	24 inches high, \$5.00 per doz.
2	15 " " 3.50 " "	5	30 " " 6.50 " "
3	18 " " 4.00 " "	6	36 " " 9.00 " "

At Your Dealer's or Direct.

GEO.B. HART, Manufacturer, 24 to 30 Stone Street, Rochester, N Y.

Our Prices Will Interest YOU!

When in need of
BEAUTIES

Send your orders to
THE LEO NIESSEN CO.

Wholesale Florists
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Before Looking Elsewhere
Tell Them You Did So And
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1619 - 21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.
Wholesale Florists
RIEHOOND, IND.

Please mention Horticulture when writing.

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EXCHANGE, Inc.
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
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WHOLESALE

Plantsmen and Florists
37 and 39 West 28th St., NEW YORK



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mention HORTICULTURE.

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.
If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market
Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere
226 DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON April 27		ST. LOUIS April 17		PHILA. April 24	
Roses						
Am. Beauty, Special	20.00	to 25.00	25.00	to 40.00	20.00	to 30.00
" " Fancy and Extra	15.00	to 20.00	20.00	to 30.00	10.00	to 20.00
" " No. 1	4.00	to 8.00	6.00	to 10.00	4.00	to 8.00
Russell, Hadley	4.00	to 12.00	8.00	to 10.00	6.00	to 10.00
Killarney, Richmond, Hillingdon, Ward, Extra	4.00	to 6.00	6.00	to 8.00	8.00	to 10.00
Ordinary	2.00	to 4.00	8.00	to 4.00	3.00	to 6.00
Arenburg, Radiance, Taft, Key, Extra	4.00	to 6.00	.....	.....	8.00	to 10.00
Ordinary	3.00	to 4.00	.....	.....	3.00	to 6.00
Ophelia, Mock, Sunburst, Extra	4.00	to 8.00	8.00	to 10.00	8.00	to 10.00
Ordinary	3.00	to 4.00	4.00	to 5.00	3.00	to 6.00
Carnations, Fancy	2.00	to 3.00	3.00	to 3.00	3.00	to 4.00
Ordinary	1.50	to 2.00	.75	to 1.00	2.00	to 3.00
Cattleyas	35.00	to 50.00	50.00	to 60.00	50.00	to 75.00
Dendrobium formosum	.....	to 35.00	.....	to 35.00	.....	to 35.00
Lilacs, Longiflorum	6.00	to 8.00	10.00	to 12.00	8.00	to 10.00
" Rubrum	.....	to 10.00	.....	to 10.00	.....	to 10.00
Callas	8.00	to 10.00	10.00	to 12.00	8.00	to 10.00
Lily of the Valley	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Delais	1.00	to 3.00	1.00	to 2.00	1.00	to 2.00
Violets	.40	to .50	.20	to .30	.....	to .75
Mignonette	2.00	to 3.00	3.00	to 4.00	2.00	to 3.00
Smoking green	4.00	to 12.00	2.00	to 3.00	3.00	to 12.00
Daffodils	1.50	to 2.50	2.00	to 3.00	2.00	to 3.00
Gladioli	8.00	to 12.00	.....	to 5.00	5.00	to 6.00
Tulips	2.00	to 3.00	3.00	to 4.00	2.00	to 3.00
Hyacinths	2.00	to 3.00	3.00	to 4.00	.....	to 4.00
Freesias	1.00	to 1.50	2.00	to 3.00	.....	to 3.00
Calendulas	1.00	to 3.00	2.00	to 3.00	1.00	to 3.00
Lilac (per bunch)	.....	to 1.00	.....	to .35	.....	to 3.00
Sweet Peas	.85	to 1.00	.20	to .50	.50	to 1.00
Gardenias	30.00	to 35.00	.....	to 3.00	3.00	to 30.00
Adiantum	.....	to 2.00	1.00	to 1.25	.....	to 1.00
Smilax	12.00	to 16.00	10.00	to 12.00	10.00	to 12.00
Asparagus Plumosus, & Spruce (100 Bds.)	25.00	to 35.00	20.00	to 30.00	25.00	to 30.00

WILLIAM F. KASTING Co.
Wholesale Florists
383-387 ELLICOTT ST. - - - BUFFALO, N. Y.

J. A. BUDLONG
184 North Wabash Avenue, CHICAGO
ROSES, VALLEY and WHOLESALE CUT FLOWERS
CARNATIONS GROWER of
A Specialty

Flower Market Reports

BOSTON Easter week was a lively time for the plant growers, who found ready buyers for all they had to offer and on some lines could have done much more if they had the goods to supply. As a rule the stock was of very high quality and the variety was greater probably than on any former occasion. Lilies were well sold out but at prices considerably below earlier quotations. In plant form they cleaned up very well in the stores but in cut form they dragged badly and many were left over unsold. Another flower which was seemingly overdone was the English primrose, of which quite a lot of cut blooms were still in wholesalers' hands when Monday morning came. The flower shipping trade was excellent from Wednesday until Friday, when it practically stopped and material that came in on Friday and Saturday fared rather badly as much of it had been held back contrary to the advice of the wholesale dealers and the weather on Saturday was not conducive to good business. The retailers bought cautiously and Saturday midnight found considerable stuff unsalable at any price. Thursday was a banner day and the market was full of life. Lily of the valley was in light supply all through and was a quick seller. Violets also fared well, but carnations had quite a slump and on Saturday the rose market also fell off. Red roses, however, sold all right at any time. Bulbous stock was limited in quantity. Sweet peas made a good record. Smilax was and still is very scarce. Although quiet as compared with last week some brisk trading is being done this week. The carnation supply is shortening up and prices are beginning to advance. Roses, while not so limited in supply, are not too plentiful and just about meet the demand. Sweet peas are bringing average prices. Violets are no longer to be had at any price. Spanish irises are being purchased largely, especially the longer stemmed blooms, some of which are nearly three feet in length. Gardenias are stationary. Calendulas are lying uncalled for on many shelves. Primroses are now scarce. The general condition of this week's market may be summed up by saying that demand and supply are pretty well balanced.

CHICAGO This has been a busy Easter and the trade generally is quite ready to stop and take breath. From the time shipping began on Wednesday till the last order was taken care of on Easter Sunday the wholesalers were on the jump. Local trade came in strong as the week neared the end and stock poured in in an unceasing stream. Of all kinds that go to make up a normal late Easter supply there was much, but of lilies there was more than enough. There seemed to be no end to the cut lilies and the stems were all the way from short to long and prices covered a good range. It was, however, not a question of price. There were simply more lilies than the market could use. Of the flowers in short supply at the week end sweet peas proved to be the chief. The supply was large and a shortage had not been looked for, but the demand was so great that many wholesalers could not fill their last orders. There were



AMERICAN BEAUTIES

Fine large well colored buds,
in quantity, all lengths

	Per 100
Special	\$35.00
Fancy	30.00
Extra	25.00
First	15.00
Second	10.00

S. S. Pennock-Meehan Co.

The Wholesale Florists of Philadelphia

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1608-1620 Ludlow St.	117 W. 28th St.
BALTIMORE	WASHINGTON
Franklin & St. Paul Sts.	1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI April 17		CHICAGO April 24		BUFFALO April 24		PITTSBURG April 20	
Roses								
Am. Beauty, Special.....	35.00	40.00	30.00	40.00	35.00	40.00	25.00	35.00
" " Fancy and Extra.....	20.00	35.00	20.00	30.00	25.00	35.00	28.00	20.00
" " No. 1.....	10.00	20.00	10.00	15.00	10.00	12.00	10.00	15.00
Russell, Hadley.....	8.00	15.00	6.00	25.00	.....	10.00	4.00	15.00
Killarney, Richm'd, Hill'don, Ward	8.00	12.00	8.00	10.00	8.00	10.00	6.00	10.00
Ord.	4.00	6.00	3.00	6.00	4.00	6.00	.....	4.00
Arenburg, Radiance, Taft, Key, Ex.	8.00	12.00	8.00	10.00	8.00	10.00	6.00	10.00
Ord.	4.00	6.00	3.00	5.00	5.00	6.00	.....	4.00
Ophelia, Mock, Sunburst, Extra...	8.00	12.00	8.00	12.00	8.00	10.00	8.00	12.00
Ordinary	4.00	6.00	3.00	6.00	4.00	6.00	.....	4.00
Carnations, Fancy.....	3.00	4.00	2.00	3.00	2.50	3.00	.....	3.00
Ordinary.....	.....	2.00	1.00	2.00	1.50	2.00	1.50	2.00
Cattleyas.....	40.00	50.00	40.00	50.00	40.00	50.00	40.00	50.00
Dendrobium formosum.....	.....	.....	.....	.....	.....	.....	.....	.....
Lilies, Longiflorum.....	10.00	12.00	4.00	10.00	10.00	12.00	5.00	10.00
Rubrum.....	.....	.....	.....	.....	4.00	6.00	.....	.....
Callas.....	8.00	12.00	6.00	12.00	8.00	12.00	6.00	10.00
Lily of the Valley.....	4.00	5.00	3.00	4.00	4.00	5.00	3.00	6.00
Daisies.....	.50	.75	1.00	1.25	1.00	1.50	1.50	3.00
Violets.....	.35	.50	.....	.....	.40	.50	.10	.50
Mignonette.....	.....	.....	3.00	6.00	3.00	5.00	4.00	6.00
Snapdragon.....	6.00	15.00	8.00	12.00	6.00	10.00	8.00	12.00
Daffodils.....	1.00	3.00	.....	2.00	8.00	3.00	2.00	4.00
Gladioli.....	.....	.....	.....	.....	.....	.....	.....	.....
Tulips.....	3.00	4.00	2.00	3.00	2.00	3.00	2.00	4.00
Hyacinths.....	5.00	5.00	.....	2.00	2.00	3.00	.....	.....
Freesia.....	1.00	2.00	.....	.....	2.00	3.00	.....	.....
Calendulas.....	2.00	3.00	.....	2.00	.....	3.00	2.00	3.00
Lilac (per bunch).....	.....	1.00	.25	50	.....	1.50	.....	.....
Sweet Peas.....	.50	1.00	1.00	2.00	.50	2.00	.50	1.00
Gardenias.....	.....	.....	.....	.....	25.00	30.00	.....	.....
Adiantum.....	.....	1.00	.....	1.00	1.00	1.25	1.00	1.25
Smilax.....	15.00	20.00	18.00	15.00	.....	15.00	15.00	20.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00	30.00	25.00	30.00	40.00	60.00	15.00	25.00

no violets, which tended to make peas move still faster. The supply of roses was very large but all good stock cleaned up at good prices while poor stock probably sold for all that it was really worth. Spanish iris in yellow, purple and white were quite plentiful and calendulas of large size and good color sold well. Lilacs of the choice as well as the common varieties met with ready sale up to a certain amount. The day after Easter was not as quiet as that day frequently is but good stock moved showing retailers had disposed of their Easter supply. The plant trade was certainly good and Easter emptied up many greenhouses in a way that made one wonder what would become of the cut flower business. Even those retailers who placed heavy advance orders added to them repeatedly up to Saturday afternoon and even on Sunday morning deliveries were made. Lily plants were mostly short-stemmed. Azaleas, rhododendrons, spirea and roses were the principal other plants and to this stock was added hyacinths, narcissus and tulips in pans and pots. The late Easter was no detriment to the plant trade in general though there was more or less stock too far open.

CINCINNATI Easter business was very good. The early part of the business dragged somewhat but at the end on Saturday the local buyers took up nearly everything in the market. Prices were fair. The cut of lilies was excellent and the largest we ever have had for Easter. At the close of business quite a few were left over. Roses and carnations cleaned up very readily. Roses dragged somewhat at first but cleaned up nicely toward the end of the business. Narcissus poeticus were plentiful and proved good property but other bulbous stock was rather scarce. Sweet peas met with a good demand and more would have been used had they been forthcoming. Other offerings that sold well included snapdragon, callas, lily of the valley and violets. The plant business was good. Blooming plants naturally had the call but the foliage plant, too, met with a pretty fair demand.

NEW YORK As a general statement it may be fairly said that New York's Easter was a splendid success for the florist trade. There were, of course, a

(Continued on page 611)

H. E. FROMENT
Wholesale Commission Florist
Choice Cut Flowers
New Address, 142 West 28th St., NEW YORK
Telephone: 2200, 2261, Madison Square.

MOORE, HENTZ & NASH
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 786
Madison Square **New York**

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Telephone 5325, Farragut.
Call and inspect the Best Establishment
in the Wholesale Flower District.

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WHOLESALE FLORIST
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CONSIGNMENTS SOLICITED
PHONE 608
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JOHN YOUNG & CO.
WHOLESALE FLORISTS
53 WEST 28th STREET NEW YORK CITY
Consignments Solicited
Phone 7362 Madison Square

THE KERVAN COMPANY
Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.
Saxifrage, Hemlock, all Decorative Evergreens.
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5993 Mad Sq. 119 W. 28 St., New York

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

M. C. FORD
121 West 28th St., NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone 3370 Farragut.

GEORGE B. HART
WHOLESALE FLORIST
24 Stone St., Rochester, N. Y.
Regular Shipments Wanted of
Pansies and Violets
I have a good market for them.

B. S. SLINN, JR.
55 and 57 West 26th St. NEW YORK

P. J. SMITH
WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
TELEPHONE 2281
1089 FARRAGUT 131 West 28th St., NEW YORK CITY

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.
WHOLESALE ONLY
— SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US —
Prices Right. Consignments Solicited. Telephone Connection

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THE HIGHEST GRADE OF VALLEY ALWAYS
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FARRAGUT 759

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Telephone 7062 Madison

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WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones 1064
1665 Madison Square CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Apr. 22 1916		First Half of Week beginning Apr. 24 1916	
American Beauty, Special	25.00	to 40.00	30.00	to 35.00
" " Fancy and Extra	10.00	to 20.00	10.00	to 20.00
" " No. 1	3.00	to 8.00	3.00	to 6.00
Russell, Hadley	6.00	to 40.00	6.00	to 35.00
Killarney, Richmond, Hillingdon, Ward, Extra	4.00	to 6.00	4.00	to 6.00
" " Ordinary	2.00	to 4.00	2.00	to 3.00
Arenburg, Radiance, Taft, Key, Extra	6.00	to 12.00	6.00	to 8.00
" " Ordinary	2.00	to 4.00	3.00	to 4.00
Ophelia, Mock, Sunburst, Extra	6.00	to 20.00	6.00	to 10.00
" " Ordinary	2.00	to 6.00	2.00	to 6.00
Carnations, Fancy	3.00	to 6.00	1.50	to 2.00
" " Ordinary	2.00	to 3.00	1.00	to 1.50

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Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—5532-3533 Madison Square

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TRAENDLY & SCHENCK
Wholesale Florists
436 6th Avenue, Between 26th and 27th Sts., New York
Telephones: 797-798-799 Farragut
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FLORISTS
A. Young & Co.
54 West 28th St. New York
Consignments Solicited

WALTER R. SIEBRECHT CO.
Incorporated
Wholesale Commission Florists
Orchids, Gardenias and Many Unusual
Flowers of Quality.
114 West 28th Street
NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK
WHOLESALE FLORISTS
55-57 West 26th Street
Telephones, 13—8510 Madison Square
MAURICE L. GLASS, Treasurer
Consignments Solicited

Flower Market Reports

(Continued from page 600)

few hitches here and there and an occasional development which did not meet with universal approval but perhaps there were fewer of these than for many years back. There was nothing that could be really designated as a "slump" although lilies were somewhat overdone in quantity and prices ran lower on all sides than had been contemplated in advance, and snapdragons were badly turned down by the buyers. Just why this lovely flower got such a knockout here does not plainly appear. The quality of much of the stock offered was very fine and in other markets we understand it sold very well. But New York does unaccountable things sometimes. Swainsona was also badly in the discard. Carnations did not fare as well as the growers hoped for. The fact is that there were a good many shipments into the market which carried the symptoms of senility. On the day after Easter there were a good number of Enchantress carnations left unsold and in such condition that had they been sold would have done the divine flower no good among the flower buyers. Roses pulled through all right but they were abundant and any attempt to inflate prices would have probably resulted in disaster. A distinct preference for the newer varieties of roses was noticeable. Ophelia and Hadley stood in the front rank of preference and realized prices nearly double those obtainable for the older kinds. Bulbous stock was not overplentiful and the tulips and narcissi of various species sold out rapidly at standard prices. Lily of the valley took an amazing jump to the values of a quarter century or more ago, sales at \$10.00 per 100, and quotations at \$12.00 to \$15.00 being registered. Most of the stores had engaged their stock in advance, however, at a standard price of \$50.00 per 1000. The situation was much relieved by the appearance in Phil Kessler's hands of a lot of "frame valley" of fine quality, the first cut of the season, at \$4.00 per 100—a record

(Continued on page 610)

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Experienced, Progressive and can handle shipments of growers' product satisfactorily.

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We Solicit Consignments of New England Grown Novelties.

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Wholesale Commission

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We handle every variety of cut flowers. We have 22 years' experience behind us, and we do not expect a gold medal for doing our full duty by our consignors and customers. You cannot go very far wrong when dealing with us.

GUTTMAN & RAYNOR, Inc.

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Phones 2036, 2037, 558 Farragut

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TELEPHONE MAIN 2698

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Apr. 22 1916		First Half of Week beginning Apr. 24 1916	
	100.00 to	200.00	25.00 to	75.00
Cattleyas	20.00 to	35.00	20.00 to	35.00
Dendrobium formosum	4.00 to	8.00	4.00 to	6.00
Lilies, Longiflorum	6.00 to	8.00	4.00 to	8.00
" Rubrum	.50 to	2.00	.50 to	1.00
Callas	.50 to	2.00	.50 to	1.00
Lily of the Valley	2.00 to	6.00	2.00 to	6.00
Daisies	3.00 to	8.00	3.00 to	8.00
Violets	2.00 to	3.00	2.00 to	3.00
Mignonette	6.00 to	8.00	6.00 to	8.00
Snapdragon	2.00 to	3.00	2.00 to	3.00
Daffodils	2.00 to	3.00	2.00 to	3.00
Gladiali	1.00 to	2.00	1.00 to	2.00
Tulips	1.00 to	2.00	1.00 to	2.00
Hyacinths	1.00 to	2.00	1.00 to	2.00
Freesia	1.00 to	2.00	1.00 to	2.00
Calendulas	.25 to	.50	.25 to	.50
Lilac (per bunch)	.25 to	1.00	.25 to	1.00
Sweet Peas	8.00 to	15.00	8.00 to	15.00
Gardenias	.50 to	1.00	.50 to	1.00
Adiantum	8.00 to	20.00	8.00 to	20.00
Smilax	15.00 to	25.00	15.00 to	35.00
Asparagus Plumosus, & Spreng (100 bunches)				

Are You Dissatisfied?

I have an unlimited market for your flowers, any variety, in any quantity. Prompt returns of sales on consigned goods. Ready cash when due. A clean record of twenty-eight years in the Cut Flower Commission Business.

Write for information or call and talk it over.

Telephone 167 & 3058 Farragut **J. K. ALLEN** 118 West 28th Street
NEW YORK

New England Florist Supply Co.

SPECIAL — 10 BARREL BALE Sphagnum Moss, \$3.50
276 Devonshire Street, BOSTON, MASS.

Fort Hill, 3469
TELEPHONES: Main, 4789 W

Open 6 a. m. to 7 p. m.

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For High-Class Roses

Full line of BULBOUS STOCK, BOUVARDIAS, SWEET PEAS and other Seasonable Flowers.

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Consignments of
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111 W. 28th Street

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Asparagus Plumosus Seedlings, \$5.00 per 1000. Ready May 1st. COLLINGDALE GREENHOUSES, Collingdale, Pa.

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Delivery from May 15th.
Lorraine, 2½ in. pots, \$12.00 per 100; Cincinnati, 2½ in. pots, \$15.00 per 100; Mrs. J. A. Peterson (New), 2½ in. pots, \$25.00 per 100; \$200.00 per 1000.
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Bulbs of all descriptions. Write for prices.
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Send for list today.
THE CONARD & JONES CO.
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New Carnation Cottage Maid.
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Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

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New Chrysanthemum Catalogue for 1916.
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Early Lavender Pink Chrysanthemum.
Alex. Guttman, also Emma, a Garza Anemone, Double Pompon, pale pink.

CYCLAMEN

CYCLAMEN. Best strain. Separate colors or mixed, 3 in. pots, \$8.00 per 100, for May delivery.
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NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest. Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

IF YOU INTEND growing Dahlias for cut flowers then you will make no mistake if you will try my assortment, especially selected for cut flower production. Three whites, 3 pinks, 1 red, 1 yellow, 1 lavender, 1 fancy; all field roots, labeled true to name; per 100, 10 of each kind, \$3.00; per 1000, 100 of each kind, \$25.00. 50 at 100 and 500 at 1000 rates. Cash with order. Guarantee entire satisfaction. If interested in Dahlias, then please send for my wholesale trade list of Dahlias.

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Madame Sallerot—2 in., \$2.00 per 100;
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Gold fish, aquarium plants, snails, cas-
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ORCHID PLANTS

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PANSY PLANTS

225,000 large, stocky (Sept. transplanted), field-grown blooming pansy plants, Henry Motte's strain, all salable stock, satisfaction guaranteed, \$1.00 per 100; \$10.00 per 1000. Cash. Prompt shipping. **BRILL CELERY GARDENS**, Kalamazoo, Mich.

Pansies, the big giant flowering kind, \$3.00 per 1000, in bud and bloom, \$5.00 and \$15.00 per 1000. Cash. If I could only show the nice plants, hundreds of testimonials and repeat orders I would be flooded with new business. **JAMES MOSS**, Johnsville, Pa.

PANSY PARK PERFECTION is a thoroughbred strain of Show and Fancy Pansies. It includes every giant variety known; the reds, bronzes and finest fancy varieties in good proportion. I have made a specialty of growing Pansy seeds and plants over 40 years and received thousands of testimonials from florists and amateurs in all parts of the country. Fine, stocky, field-grown plants from July sown seed, September transplanted in bud and bloom, all colors mixed, 1000, \$8.00; 100, \$1.25. Plants from August sown seed, October transplanted, some in bud, \$7.00 per 1000; 100, \$1.00. Strong, stocky, field grown seed bed plants from seed sown in August, thinly broadcast, many in bud, some in bloom, 1000, \$5.00; 100, \$2.75. Medium size seed bed plants which will bloom the latter part of May, 1000, \$4.00; 100, \$2.25. Cash with order. **L. W. GOODSELL**, Pansy Park, Dwight, Mass.

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In all sizes. Special price-list on demand. **JULIUS ROEHRS CO.**, Rutherford, N. J.

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Peonies. The world's greatest collection. 1200 sorts. Seed for cash. **C. REISCHER**, Canal Dover, O.

PECKY CYPRESS BENCHES

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POLYANTHUS

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SEED AND PLANT FORCER

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SPHAGNUM MOSS

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Live Sphagnum moss, orchid peat and orchid baskets always on hand. **LAGER & HURRELL**, Summit, N. J.

SHELF BRACKETS

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SUN DIALS

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TUBEROSES

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VASES

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VEGETABLE PLANTS

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500,000 Giant Argentine and Palmetto Asparagus Roots grown from selected seed, 500,000 Jersey Sweet Potato Plants, red and yellow, 50,000 Vineland Bush Sweet Potato Plants, no vines, 100 lbs. each Ruby King and Pimento Pepper Seed, 25,000 Gladiolus Bulbs, 10,000 Rhubarb Roots. All other Vegetable Plants in season. Write for what you want. No catalogue. **I. & J. L. LEONARD**, Iona, N. J.

Celery Plants: Golden Self-Blanching (French strain); fine plants, ready now; \$2.00 per 1000. Cash. Special prices on large lots. **BRILL CELERY GARDENS**, Kalamazoo, Mich.

VENTILATING APPARATUS

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WILLIAM E. HEILSCHER'S WIRE
WORKS, 264 Randolph St., Detroit, Mich.

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Albany Cut Flower Exchange, Albany, N. Y.
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Charles Millang, 55 and 57 West 26th St.
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Badgley & Bishop, Inc., 34 West 28th St.
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AMERICAN BEAUTY ROSES.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
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**ASPARAGUS PLUMOSUS NANUS
SEEDS—CHRYSANTHEMUMS.**

W. H. Elliott, Brighton, Mass.
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BOOK OF ORCHID HYBRIDS.

Sander & Sons, St. Albans, England.
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CANNAS.

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R. Vincent, Jr. & Sons Co., White Marsh,
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HARDY PERENNIAL PLANTS.

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Anglin & Walsh Co., Williamsbridge, N. Y.
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WANTS, FOR SALE, ETC.

Advertisements in this column
one cent a word. Initials count as
as words. Cash with order. All
correspondence addressed "Care
HORTICULTURE" should be sent
to 147 Summer St., Boston.

HELP WANTED

WANTED

Two or three greenhouse men to do potting
and other work at our nursery, Dedham,
Mass. Apply to

R. & J. FARQUHAR & CO.,

6 South Market Street, Boston, Mass.

SITUATIONS WANTED

FOREMAN GARDENER with 17 years
experience on large private estates, expects
to make a change, where a capable man is
wanted. \$60.00 per month, board and room.
"G. D." care HORTICULTURE.

WANTED—Situation as head working
gardener. Scotch; married. Experienced
under glass, shrubs, lawns and vegetables.
Disengaged when suited. "P. M. R." 303
Andover St., So. Lawrence, Mass.

SITUATION WANTED—By Head Gar-
dener (English) on private estate; life ex-
perience in all branches of Horticulture
both under glass and outside; well up in
alpine and herbaceous plants, and all work
in general on a private estate. Good refer-
ences. Married, no family. "F. L." care
HORTICULTURE.

POSITION WANTED by reliable young
man of good character (20) as assistant
gardener on private place or nursery. Gen-
eral experience in Horticulture and Orchard
work. References furnished. Good accom-
modations and permanent position only
considered. Please state particulars and
address F. J., care HORTICULTURE.

BUSINESS OPPORTUNITIES

The larger interest in a retail Flower
growing and Nursery business in one of
the best interior resort towns in California,
southern part. Consists of modern equip-
ment of glass. Business is a small corpora-
tion and needs active management. In-
terested and responsible parties would
best communicate through their attorneys.
Not much cash needed. It is a good oppor-
tunity to become established in an old
business with a splendid reputation. Ad-
dress CALIFORNIA, care HORTICUL-
TURE.

THE NUT-GROWER

The unique monthly publica-
tion which furnishes reliable
and interesting up-to-date in-
formation regarding the value
of pecans and other edible nuts
and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

In writing to Advertisers kindly mention Horticulture

Flower Market Reports

Philadelphia. The plant trade here this year. Notwithstanding the enormous quantity in sight they all went—and at good prices. Cattleyas were very scarce and it seems that a customer who couldn't get a nice orchid for a dollar was willing to take a bunch of orchid-flowered sweet peas for the same money. There were enough gardenias to go around. American Beauty held her own as a leader in the rose world, closely followed by Russell. Both realized good prices but nothing out of the way. Pink roses also went well. The only sluggish item was in white but fortunately there was no great supply of these. Carnations moved well at moderate figures. High grade lily of the valley was rather scarce and more could have been sold even at the advance prices. No fancy prices this year on cut Easter lilies. Twelve for the fancies to ten for first-class and eight or less for shorts. Callas seemed to be a bit on the "taboo" list. The same with daisies, and the latter has heretofore generally been in fair demand as an Easter subject. Gladioli made their appearance on Friday, and today, Monday, comes the first shipment of peonies. The latter are from South Carolina and consist of Maxima, Queen Victoria and Edulis Superba—nice stock and quickly picked up.

The plant trade repeated its great success of past years. All the prominent growers sold out completely a good while ahead and retailers found difficulty in getting additional material afterwards. There was very little left in the stores by Easter morning that did not have a "sold" tag attached. After the lilies the rambler roses must be given next place in importance and popularity this year. These were another very particular and well deserved their position as did also the French hydrangeas which made a whirlwind success, actually driving the old Otaksa out of the market. Some of the azaleas were unevenly flowered, showing the results of long confinement in transit from Europe. Pink Pearl was the leader among the rhododendrons. Comparatively little of the bulbous material was in evidence.

PHILADELPHIA Sweet peas were the feature of the Easter market here this year. Notwithstanding the enormous quantity in sight they all went—and at good prices. Cattleyas were very scarce and it seems that a customer who couldn't get a nice orchid for a dollar was willing to take a bunch of orchid-flowered sweet peas for the same money. There were enough gardenias to go around. American Beauty held her own as a leader in the rose world, closely followed by Russell. Both realized good prices but nothing out of the way. Pink roses also went well. The only sluggish item was in white but fortunately there was no great supply of these. Carnations moved well at moderate figures. High grade lily of the valley was rather scarce and more could have been sold even at the advance prices. No fancy prices this year on cut Easter lilies. Twelve for the fancies to ten for first-class and eight or less for shorts. Callas seemed to be a bit on the "taboo" list. The same with daisies, and the latter has heretofore generally been in fair demand as an Easter subject. Gladioli made their appearance on Friday, and today, Monday, comes the first shipment of peonies. The latter are from South Carolina and consist of Maxima, Queen Victoria and Edulis Superba—nice stock and quickly picked up.

The plant men from all accounts, have done equally as well as the cut flower growers; and everybody seems to be satisfied and fairly well cleaned out of all that was fit to sell.

PITTSBURGH Notwithstanding the lateness of Easter, with the parks and private grounds aglow with genista, magnolias, forsythia and bulbous blossoms, three public flower shows and gloomy skies and rain, commerciality the season was without exception the

best in the history of local trade in cut flowers. There were plenty of flowers of practically all kinds, and plenty of money to buy them, than which there could be no better condition. Particularly, sold well in greater quantities than ever before. On the whole, cut flowers brought about the regular prices, sweet peas and good carnations, only, showing a little increase. Unfortunately, the Hudson River American Beauties and violets arrived about twelve hours late, those due Friday morning not reaching the wholesale houses until seven o'clock that evening. As might be expected, they were by no means up to "concert pitch."

ST. LOUIS From reports gathered this early the 1916 Easter, coming late as it did, was the largest and best the St. Louis florists have ever had. The weather was fine on Saturday and Sunday, which made deliveries pleasant for all. The leading retailers say that it was distinctly a "plant Easter" and never before were there so many sold. The big department stores cut heavily into the plant trade, selling at extremely low prices. Lilies were of exceptionally fine quality both in cut flower and pot plants and this was the leading flower. Next in demand were azaleas, hydrangeas and rhododendrons. Following these were Tausendschoen and Perkins rambler roses. Plans of tulips, Dutch hyacinths and lily of the valley also came in for a big demand. The wholesale flower market was greatly supplied with all seasonable stock and it was a hard matter for the commission men to clean up on any one flower. Roses came in large quantities and at very reasonable prices, except extra fancies. Beauties were in good supply, also Mrs. Russell, and the Killarneys. There was a grand cut of carnations and many more than the demand called for. There were no violets this Easter, but sweet peas were a big glut and sold for very low prices. Orchids demanded a high price owing to the shortage. The wholesalers state that shipping orders were larger than ever before. The local retailers had to purchase all their supply on Saturday as the wholesalers would not open their places on Easter Sunday for business.

WASHINGTON The local retailers have just passed through a most successful Easter business and are very well pleased with results. There was a marked shortage in several lines, but on the whole there was a sufficient quantity of all varieties to fill the demand. The greatest trouble was with respect to orchids which were practically unobtainable the latter part of the week and many of the storemen who had promised them for Easter delivery could not fulfill their promises. The heavy demand from out-of-town places for lily of the valley sent the price on this up to \$8 per hundred. The price is now down to normal at \$6. Roses sold better this year than ever before. Carnations sold out at very good prices and the present week finds a shortage in the carnation market. Sweet peas were in high favor and brought very good prices. Large quantities of violets were sold, although it was estimated that twice as many could have been moved had the retailers pushed their sale and had

not been afraid that they would be off the market before Sunday. Plants brought good prices and the number sold is said to have exceeded last year. Smilax and asparagus are scarce.

Obituary

James MacMachan.

James MacMachan, for seventeen years superintendent for George F. Baker, at Tuxedo Park, N. Y., passed away suddenly on Tuesday morning, April 11th, in the 52nd year of his age. Mr. MacMachan was born in Dundee, Scotland, but at an early age moved to Blairgowrie and while very young began serving his time at Halleburton House. In the years following or until he came to this country he pursued his labors and studied in gardening in some of the best estates in Scotland and Ireland. On arriving in this country Mr. MacMachan took charge of the estate of Geo. F. Baker which in a few years he transformed what was little more than rocky hills and swampy hollows into what has been for many years conceded to be one of the most beautiful and interesting spots in this section. Mr. MacMahan was passionately devoted to his profession; every inch of him was a gardener and everything the ground produced appealed to him. He always took a leading part in all the work connected with the Tuxedo Horticultural Society, having held several offices including that of president. He was also a director for several years of the National Association of Gardeners. The funeral which took place on Friday afternoon, April 14, from St. Mary's church was largely attended by men prominent in the trade in New York and elsewhere, and by the public, and every gardener in this section. Mr. MacMachan is survived by his wife and two daughters. He had many friends here and elsewhere and the sincerest sympathy of all of them goes now to those who are most sadly stricken.

THOMAS WILSON.

Frederick Bolze.

Frederick Bolze, a florist in New York as early as 1860, died last week at his home in Pleasantville, N. Y., in his 70th year. He was active in business until his death. Mr. Bolze was born in Hanover, and was educated at the Royal College of King George of Hanover, receiving a special degree of merit, and soon after coming to this country. He became associated with the florist Buchanan of Astoria, one of the first florists of Long Island. For many years he had a shop in Fifth avenue at 42nd street, and later at Lexington avenue and 54th street. He went to Pleasantville 20 years ago.

Andrew McKnight.

Andrew McKnight, a well-known market gardener of the past generation died in Communipaw, N. J., on April 20, aged 92 years. Mr. McKnight was a contemporary of Peter Henderson and J. Stevens and did a large business in celery and cabbage. Later he built up quite a reputation as a pansy grower. He retired about five years ago, his eyesight having almost gone.



WEED KILLER

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

P.-L. CHEMICAL CO., 507-509 W. 19th St., New York

CORRESPONDENCE SOLICITED.

A ROOF GREENHOUSE

The roof greenhouse shown in our cover illustration was completed a few months ago by S. Jacobs & Sons for C. C. Trepel, on the roof of a two-story building at Broadway and 89th street, New York. The size of this curved-eave greenhouse is 35 by 125. Many obstacles had to be overcome in this operation. A special permit was obtained from the building department of New York, because the building was an old structure. The brick walls had to be elevated, a special shaft was built, take passengers to the roof. Fire law regulations had to be met; a concrete roof was laid, a steam heating plant was installed, which heats the entire building and greenhouse. Special provisions were made for heating the greenhouse at night. A difficult drain-

and an elevator was installed, so as to age problem was solved. The least of S. Jacobs & Sons troubles were encountered in securing the contract, although it was a strictly competitive job. This greenhouse is in perfect running order, and has been pointed out by many in passing by on account of its artistic beauty. The best feature of it all is that Mr. Trepel has secured a big trade by means of its attractiveness.

GREENHOUSES BUILDING OR CONTEMPLATED.

Dayton, O.—Heiss Company, rebuilding.

Oswego, N. Y.—C. Beckstedt, additions.

Clayton, Mo.—Werner Bros., additions.

Seymour, Ct.—T. J. Mooney, one house.

Bala, Pa.—H. J. Muller, house 25 x 175.

Rutland, Mass.—Rutland Sanatorium, one house.

Rochester, N. Y.—Frank Lavigne, show house.

Scranton, Pa.—G. E. Carpenter, show house.

Camden, N. J.—Albert C. Stack, house 24 x 85.

Lexington, Ky.—Chas. P. Keller, range of houses.

Evansville, Ind.—Karl Zeidler, three houses each 25 x 100.

Sioux City, Ia.—J. C. Rennison Co., two houses each 36 x 200.

Marlboro, Mass.—Walter P. Frye, Pleasant street, additions.

Hutchinson, Kan.—Underwood Greenhouses, additions and alterations.

The following have each ordered one house from the King Construction Company, North Tonawanda, N. Y.; Wm. Brotzman, Phillipsburg, N. J.; Poinard Bros., Scranton, Pa.; Isaac Brockbill, Soudersburg, Pa.; J. D. Joyce, Pottsville, Pa.; W. P. Diamond, Johnson City, N. Y.; D. E. E. Koser, Williamsport, Pa.; Paul Niehoff, Lehighton, Pa.; W. H. Thomas, Honey Brook, Pa.; Norman Stauffer, Lancaster, Pa.; E. M. Campbell, Shamokin, Pa.; Mrs. C. M. Schnovely, Ephrata, Pa.; Walter Garland, Pen Argyle, Pa., two houses; Fred Frank, Brookside, Pa., two houses; A. Schultze, Scranton, Pa., three houses.

USE THIS PURE PLANT FOOD

FOR GARDEN

FOR LAWN



MAGIC HUMUS is a pure plant food unleached and unburnt. Its analysis proves that it contains potash, phosphoric acid, nitrogen and Compost in available form.

MAGIC HUMUS COMPOST possesses the body and fibre to absorb and retain Nature's moisture after it is put into the ground and spreads its fertilizing elements through the soil.

Months are occupied in the preparation of MAGIC HUMUS. It reaches the garden free from weed-seed and can be agreeably handled.

The garden receiving a liberal application of MAGIC HUMUS COMPOST is permanently enriched with plant food and soil.

Seven 100-lb. Bags, \$5.00.

Single Bag, 100 lbs., 90c.

f. o. b. New York or Jersey City.

HIGHGRADE MANURE COMPOST CO.

G. W. CHANDLER, Sales Agent,
533 West 29th St., New York, or
68 Maple Ave., Red Bank, N. J.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago



IMP. SOAP SPRAY

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON



NIKOTEEN

For Spraying

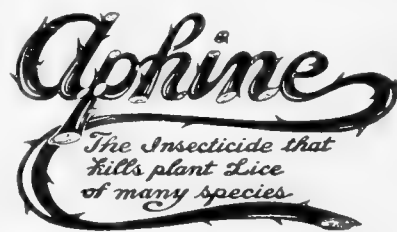
APHIS PUNK

For Fumigating

Ask Your Dealer For It

NICOTINE MFG. CO.

ST. LOUIS



The Recognized Standard Insecticide. A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporising.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SCALINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

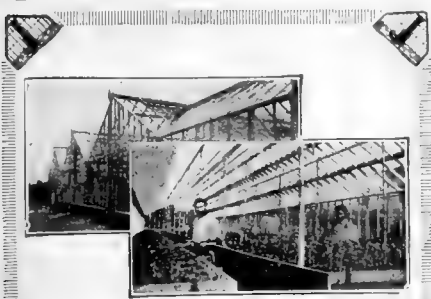
Aphine Manufacturing Co.
MADISON, N. J.

Aetna Brand Tankage Fertilizer

Is the best balanced fertilizer manufactured. It contains the ten salts constituting soil. It is giving satisfactory results wherever used.

FARMERS' AND FLORISTS' FERTILIZER CO.

809 Exchange Ave., Room 5, Tel. Droyer 1932
U. S. YARDS, CHICAGO, ILL.



Range of Greenhouses which we built for Mr. N. Grillo, Rose Grower, of Milldale, Conn. There is absolutely no shade in these houses. The Jacobs patented construction eliminated it entirely.

Any grower who wants his greenhouse built at the lowest cost, and in the shortest time, consistent with good workmanship, can get just what he desires by employing the Jacobs organization for the job. This is a fact which is conceded by many of the biggest greenhouse owners in the country.

While we have been at it almost half a century, we come to you not only with the knowledge accumulated through all this experience, but we are always right up with the times on what's what, and what's new in Greenhouses.

When you think of a greenhouse, no place in the U. S. is too far for us to go, to submit specifications and prices.

S. JACOBS & SONS

Greenhouse Builders

1359-1385 Flushing Ave.
BROOKLYN - - N. Y.



EVERYTHING FOR THE GREENHOUSE John C. Moninger Company

CHICAGO NEW YORK
922 Blackhawk St. 812 Marbridge Bldg.
CINCINNATI, 2314 Union Central Bldg.

GLASS

GREENHOUSE MATERIAL
HOT-BED SASHES

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.



Evans 20th Century Arm

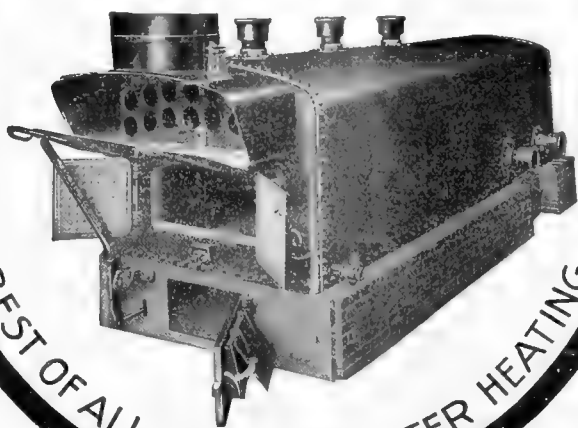
Most up-to-date arm on the market. Proved that it is better than any other is that others tried to imitate it. Write for our 1915 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.

SEND FOR
CATALOGUE

DO IT
TODAY

THE
KROESCHELL
GREEN HOUSE
BOILER



BEST OF ALL FOR HOT WATER HEATING

KROESCHELL
BROS. CO.

466 W. ERIE ST.
CHICAGO

FOLEY MATERIALS

ARE THE BEST FOR

Iron Frame, Pipe Frame or Wood Frame
GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, - - - - - CHICAGO, ILL.



Select the exactly right Ventilating Apparatus for your new greenhouses. What kind is that? Of course, it's the **ADVANCE**. Try it once and you will always use **ADVANCE** material only.

Let us give you our catalogue.

ADVANCE CO.,

**RICHMOND,
IND.**

CYPRESS GREENHOUSE STOCK

PECKY CYPRESS BENCH STOCK
HOT BED SASH

Ask for Circular D and Prices

THE A. T. STEARNS LUMBER COMPANY

NEPONSET, BOSTON



One Of Our Free Schools For Workmen How It Overcomes Greenhouse Building Guesswork

IT'S an old saying that "poets are *born* not *made*."

Exactly the reverse, however, is true of greenhouse building experts.

They have to be made.

So we proceed to make them in the way they should be made.

We take the raw material and train it.

To best accomplish this we have started at one of our factories a free evening class where any of the workmen can come and learn the geometry, mathematics and engineers facts and figures, about greenhouse planning, building and erecting.

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Vol. XXIII
No. 19
MAY 6
1916

HORTICULTURE



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CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—Pope.

Asters

Young asters should have every care now. Pull the sashes off every good day and when the night promises to be free from frost they are better left uncovered. They like a rather heavy loamy soil, enriched with a liberal amount of thoroughly rotten manure (cow manure preferred) with the addition of wood ashes scattered over the surface at the rate of 30 to 40 bushels per acre. It is better to change the ground each season. Give some extra preparation to the soil now and the asters will repay you with more profuse and finer blooms, and better stems. When they have been planted three or four weeks it will pay to sow guano or some other good fertilizer about 100 to 150 pounds to the acre. After they are planted out give them frequent cultivation which will keep down the weeds and leave the surface of the soil open.

Anthuriums

Anthuriums that have not been potted should have a resurfacing of one part each of peat fibre and sphagnum moss. Cone this up 2 or 3 inches above the rim of the pot around the plant. Give them shade to protect them from the sun. Use care in syringing so as to keep the foliage beautiful. During dark and muggy weather less water should be used. Atmospheric moisture in plenty is essential. They should now be given a night temperature of 65 to 70 and, as the season advances raise it to 75 with a day heat of from 85 to 90 degrees. As the season advances give them more air, but when the temperature drops to 72 degrees see that the air is taken off. See that they have copious supplies of water now and during the summer, as this is their growing period.

Chrysanthemums for Large Specimens

When growing show-plants it is a good plan to start enough of them so that if a few kinds turn out faulty you can afford to discard them. They should be pinched and three shoots allowed to grow. After they have made about six inches more growth pinch again and allow three to each again and so on according to the size of the plant required. Never allow chrysanthemums to have to beg for water and wilt, yet too much may also be just as injurious. Syringe every sunny morning and again in the afternoon on very warm days. Look out carefully for aphids and fumigate regularly. In order to have large plants in the fall they should now occupy at least a six-inch pot. It is very important that the plants

should not suffer from being pot-bound, but at the same time it is best to allow the pots to fill up well with roots before repotting. Turfy loam with one-third well-rooted cow manure and a sprinkling of bone is a good compost to use.

Stephanotis

These old time plants are well worth growing if only for their fragrant flowers. Where there is call for bouquets it will be found a very valuable flower. Any grower who has a sunny back wall having a winter night temperature of from 55 to 60 degrees can grow this much neglected plant. It can also be grown well in 12 or 14-inch pots or large tubs and when grown this way can be trained on a balloon-like trellis. The best to grow is *Stephanotis floribunda*. They are quite easily propagated from last season's growth by placing each cutting in a small pot of sand and leaf mold in equal proportions and plunging in a propagating bench with a good bottom heat and shade until they are rooted. Maintain a humid atmosphere so as to keep the cuttings from wilting. When fairly well-rooted they can be shifted, using a fibrous loam well enriched with manure, re-potting and stopping during the first summer.

Seedling Amaryllis

Amaryllis from seed can be flowered in as short a time as fifteen to eighteen months, but as a general rule growers manage to flower a certain number when two years old, and others not until the third year. In purchasing seed, that handled by specialists should be secured. There is much cheap trashy seed sold which will only prove disappointing. It should be sown in pans or flats and placed in a warm, moist house using a light sandy compost. A little leaf is not long in appearing. When two leaves have been produced pot into 2-inch pots, still growing them moist and warm. As the plants need larger pots use a heavier compost. For the final pottings, two parts of a rather heavy fibrous loam, one part of cow manure, some gritty sand and a dash of soot and fine bone makes a good potting medium.

Planting Seed Outside

Late flowering annuals can be planted out in the open ground now in drill and thinned out later. Balsams, celosia, marigold, calliopsis, gypsophila, helianthus, helichrysum, annual phlox, poppy, salpiglossis, scabiosa, zinnias, etc., given a piece of good ground will give a fine lot of flowers for late cutting.

Next Week:—Allamandas; Cycas Stems; Dendrobiums; Forcing Lily of the Valley; Plants for Vases and Window Boxes; Propagating Winter Marguerites.

BOOM YOUR BUSINESS
by advertising your goods in the
Horticulture

Publicity among the kind of readers reached
by this paper is THE SORT OF PUBLICITY
THAT PAYS.

The Fancy Leaved Caladium

There is a large collection of this genus in nearly all the gardens of the country, and it is especially common in the mountains of Calabria, its former native country. It is now introduced into all the gardens of the United States. Of the species of *B. calabrica* the most common is *B. calabrica* (Adolphe Linder), and *B. calabrica* (Adolphe Linder), which is the most popular, due to its large, dark green leaves and great variety of fruit. In this country there are probably only two well known collections of this genus, the Herbarium of the University of Florida, and the Herbarium of the University of Florida. Two of the most famous Herbaria in the world are the Herbarium of the University of Florida, and the Herbarium of the University of Florida. The Herbarium of the University of Florida is the largest and best collection of the world. Besides being a collector and breeder, Mr. Nehrling is also a collector and breeder of the most famous varieties of the market to-day originated with him while many other strains have been more or less considerably influenced by the blood from Nehrling's productions. Mr. Nehrling is primarily a collector and breeder. He does not go in for the money making, but cultivates these plants for pure love of them. He has in his collection to-day over 1,700 varieties.

The propagation of *Caladiums* is by division of the tubers, by offsets, or by seed. The two former are the methods used to propagate named varieties. In propagating by tubers, the little eyes or tubers growing around the old tubers are cut off with a knife. The wounds are well sprinkled with powdered charcoal and the tubers placed in small pots in the propagating bench with a bottom heat of 75 to 80 degrees. Propagation by offsets is somewhat different. The tubers are placed in the pots and given a gentle bottom heat. When the new leaves are fairly well developed, the tubers are taken out, shaken off, and the little offsets with their roots are cut off from the parent tubers. The tubers may then be replanted for a second crop. In the greenhouse, the tubers are usually started in February or early March, although they may with advantage be started in January. The soil should consist of equal parts compost, leaf-mold, peat, and one-fourth sand.

Caladiums delight in a warm, moist temperature for they are natives of the tropics. They cannot be given too high a temperature. Do not try to start them earlier than March unless you can give them a house of not less than 65 degrees at night. As soon as active growth commences they will need plenty of water. Syringing should be avoided, except in the case of attacks by red-spider, as it tends to disfigure the leaves. Above all, the atmosphere should be kept moist by frequent syringings of the walks.

Most growers prefer to shade the plants, although there is a difference of opinion in regard to the benefits

1. Professor A. H. Neuringer, at the Massachusetts Agricultural college, says, "many gardeners shade far too much, which causes the leaves to develop their colors nicely, but the leaf-stalk becomes weak and needs support, thus spoiling the real beauty of the plant." As a rule, the transparent varieties require more shade than do the others.

As soon as the roots have filled the pots, liquid fertilizers should be applied from time to time. For this nitrogenous fertilizers are preferable. Chile saltpetre and Peruvian guano are excellent. Towards October the plants begin to show a tendency to rest. They should then be placed in an unshaded bench and gradually dried off. When the leaves are completely dried, the plants may be laid on their side under the benches.

the samples were held at a uniform temperature of 60°C for 24 hr.

There are about 1,000 varieties of *Caladiums*. Among the finest American varieties are Hildegard Nehrling, Berta S. Eisele, George Huster, Mrs. Theodore L. Mead, Concochee, Adolph Jaenicke, Emerald, Fascination, Ivory, Shell Pink, Snowstorm, Torchlight, Truce, P. W. Reasoner. Golden King is the best yellow variety.

The new Brazilian Caladiums embrace some of the very bestest, far surpassing in beauty, color combinations and vigor anything else placed on the market heretofore.

C. E. Wilson,

Lithospermum prostratum

The Geranium *B. C.* Greenwell is too seldom seen in American gardens. It is a low, creeping evergreen shrub or sub-shrub adapted to use in rock or alpine gardens or on sandy banks, and will produce a matted carpet of foliage of a slightly bluish hue which is very pleasing. It will also be found to be admirably adapted to use in the herbaceous border where a low creeping mass is wanted and where the color of the flowers will fit into the general color scheme of the garden.

The flower has been noted as "the most brilliant blue" amongst the hardy plants known, and without a doubt it bears out the description well. The color is a delightful deep gentian blue and the petals are striped with reddish purple, intensifying the blue rather than detracting from it. Propagation of this variety is best from the cuttings of the previous years' wood. Seeds may be tried, but the germination is uncertain and slow.

The variety *prostratum* is a native of Southern Europe, coming from the Pyrenees. It abhors limestone and will not thrive in soil in which lime in any form is present. A garden variety "Heavenly Blue" is advertised in the trade and is in every way as good as the species although differing in color, being a lighter sky-blue.

The two *Lithospermums* above mentioned lend themselves to charming combinations of color. They may be grown as a ground cover in a bed of pink china roses. In rock gardens it combines admirably with *Arabis* and *Chieranthus alpinus*. A most charming combination is with *Abies*, *Saxifraga compactum* and *Cerastium tomentosum*, giving the cool and delightful colors, blue, gold and white in harmony.

It is hoped that the public will soon have a chance to know such plants as the *Lithospermums* so that our gardens may be made more attractive and charming by their presence.

Hubert H. Canning.

Hebert, P. O. O., Mass.

Flower Show Arrangement

Dear Editor:—I HORRIFICALLY of April 22, I note with interest what you say editorially relative to flower shows. There is no doubt in my mind that just what you say is convincing. I fail to see any beauty, artistic arrangement or meaning in the usual pyramidal group of plants packed together in dense formation, and when flowering plants are employed without due consideration to the blending of color.

I have advocated for years, especially in the employ-

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur R. Zicka

Keep After Fly

Now that the warm weather is here at last, it may not always be possible to fumigate when the plants need it so no time should be lost in smoking the houses if there is even a trace of fly in them. The fly will increase in numbers very fast and if allowed to multiply unmolested, they will soon cover the plants and suck their very life out. Every fumigation should be followed by a good syringing if at all possible and for this reason it will be best to smoke the houses early just as the dawn is breaking. Smoking at this time will leave even the old fly pretty sick about the time the hose comes along, and once knocked off the plants they will seldom muster enough strength to return. Where the houses have been smoked regularly the plants ought to be pretty clean, the same being true of plants that have been sprayed. With roses we have found it easier to keep the plants clean by fumigation, as it is difficult to reach well under the leaves where the flies stay and all sprays used are contact poisons and have to hit the fly to kill same. Do not use tobacco stems for smoking except in houses carrying the young stock, for the smoke contains a great many gases injurious to the plants, especially to the flowers, and if used in houses where roses are in bloom, it is likely to bleach these badly or else burn their centers out. Tobacco stems will be useless in the walks from now on for there will be too much air on the houses. If there are plenty of these on hand, however, they can be used right around the plants as a mulch, being careful not to apply them too thickly. The fumes from these will help drive the fly to the tops of the plants where it will be easier to kill them; at the same time they will act as a mulch and the plants will get quite a little plant food from the stems. They will also help keep out a great many insects which enjoy living in the coarse mulch around the plants.

Cutting Roses

With warm weather roses will have to be cut a little tighter than was customary during the winter months, more so on places having no ice to keep them. They will open very fast from now on and if they are allowed

to open pretty well when on the plants, they will be nearly worthless by the time they are sold to the consumer. In houses that are to be planted early it will be waste to leave any roses when cutting, so it will be best to cut the roses as far back as possible, getting all there is to the stem. It is surprising what difference this will make in the grading, as a large number of the roses that were No. 1's formerly will be extras with the additional stem. This will make some difference in the price, making up for the loss by lower prices now paid for roses in the wholesale markets.

Tying

Except in the Beauty houses, the roses will need very little tying from now on: going over them once in a while to straighten them out here and there will be about all that it will pay to do to them. With Beauties it is different, as these will grow like wild now, and if they are not tied up they will lie all over and will amount to very little. It will not be necessary to tie them down so much though as they will set quite freely now and will not harm the shorter ones by shading, as the sun is much stronger and its rays are more penetrating. Those that are too tall had better be tied down so that they will have nice straight stems, as otherwise they will decrease in value, and with plenty of roses coming to the markets, will be difficult to sell.

Blackspot

This may appear here and there through the houses, among the Beauties, Ophelias, even Shawyers. But this should not cause the grower to worry, as it usually does little harm as long as it stays on the old plants. If it were in the fall it would be another thing altogether but in the spring we have never known to have any serious trouble with it. Generally this outbreak can be traced to poorly drained houses. The soil around the outside is usually very wet in the spring, and if no means of drainage is provided the waste water from watering and syringing will not soak away as it does in the fall and summer, making the houses very damp. This, and running the houses to cold towards morning, will largely be responsible for spot and for mildew. A steam pipe around the house all night with a crack of air on will do a great deal towards preventing both diseases. A good dusting of lime every night after watering or syringing will also help dry the air. See that the waste water drains away, instead of standing under the benches and see that no surface water washes in from the outside. All bad places in the glass where water drips should be repaired as soon as time will allow, so that the plants will not be wet all the time it is foggy or wet. We have had plenty of such weather and we may have more.

ment of cut flowers, that they be first judged to determine their respective position for their cultural excellence and afterward placed in the hands of an artist to use them as he sees fit, to make the "Show." The public knows nothing and probably cares but little for the fine distinctions of cultural excellence. It would be difficult for them to distinguish any difference between first and second prize flowers. On the other hand they can distinguish and appreciate the work of an artist in arrangement from one that is not.

The recent show in Philadelphia was a disappointment from an artistic standpoint. Perhaps the least defective exhibit from this view was Mr. Roland's group of acacias and even they would have appeared to better advantage had the border of heaths been absent. The roses in

themselves would have made a "show" had they been used to advantage in conjunction with other subjects and in the hands of an artist in arrangement. As they were, staged row after row, they lacked any sign of artistic arrangement, and had the cards been removed not one per cent. of those who paid admission could have distinguished between the "first" and the last. Furthermore, if the subjects were used with the view of artistic effect in the show as a whole half the material would have sufficed.

George Moorson
Baltimore, Md.

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We learn with pleasure that Hubert M. Canning has been asked by Sermoner's Sons Co. to write a volume on advanced horticultural subjects solely on the strength of the articles which he has been writing for *Horticulture* during the past year. This is not the only instance of preferment extended to writers whose qualifications were first demonstrated through their contributions to this paper. *Horticulture* has from the first been particular as to the quality of the matter admitted to its columns and at times has even had to stand some criticism because of this attitude. It is also true that we often fall short of our standard, but it is still our aim to adhere to the principle established. That a man is on *Horticulture's* staff of writers reg-

A passport
to preferment

clearly a passport to a passport to recognition and advancement in horticulture, a fact to which *Horticulture's* staff will abide.

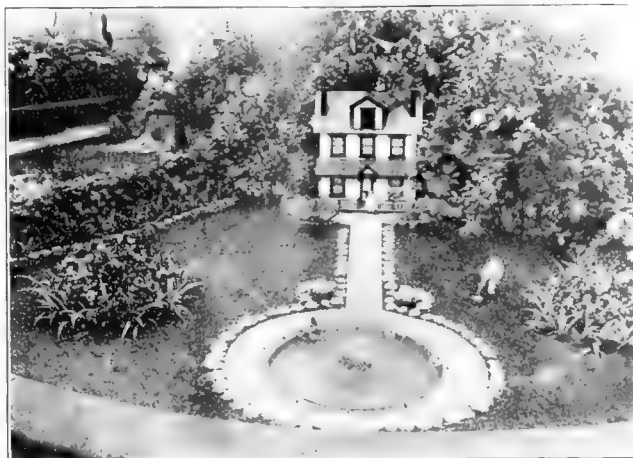
Many new roses have been added to the Queens class of commercial cut flower varieties of quality during the past few years but, with all due regard for the excellent qualities common to each such candidate, there appear to be two new roses that stand out distinctly before any of the others judging on the record of the cut flower market this season. We refer to Hadley and Ophelia. These two have made as revolutionary an impression on the rose market as followed the introduction of the Bride, Bridesmaid and American Beauty in the early days of the modern forcing rose business or the Lawson carnation in the carnation field. It is claimed that not every one can grow Hadley successfully. Probably it is better for the Hadley that this is so. Had the American Beauty been responsive to everybody who tried to grow it, the position of supremacy which it has maintained unshaken for so many years would have undoubtedly been lost long since. We believe it will be a long time before Hadley and Ophelia are forced into a back seat.

Not for many years has the Mayflower ("Trailing Arbutus") been so beautiful in Cold storage foliage and bloom as it is this spring in all sections of New England. The reason is not difficult to find. The heavy snows of February and March which only disappeared with the latter part of April, after holding the woodland denizens under a substantial blanket during the most boreal season experienced in this section for many years, did the business and preserved this daintiest of all American flowers in its full attributes of color, fragrance and foliage. In our gardens we see similar evidence of the kindly protecting snow in the rhododendrons, azaleas, evergreen berberises, etc., in all of which the snow line of last March is plainly marked as between unblemished foliage and abundant blossoms below and brown leaves and blasted flower buds above the line. Perhaps we may yet come to practice cold storage in the care of some of our most cherished garden plants by actually burying them under deep snow during the inclement months of late winter and early spring. Nature is a safe teacher to follow.

Mr. Morrison's communication in this issue on the question of flower show arrangement is a timely contribution on a topic of vital importance and on which there is room for much further discussion. We agree with the writer, of course, in his views as to what the public demands in such affairs. The proposition to supply this essential through a rearrangement of material after having a preliminary competition for cultural qualities impresses us, however, as impracticable in a show of any extent or importance. The idea has already been carried out, we believe, with some measure of success in some of the minor shows but exhibitors of fine things are, naturally, not always disposed to have their masterpieces "lost in the shuffle" and, moreover, in a large exhibition such as that recently held in Philadelphia the labor and confusion of any general rearrangement would be a herculean job. Much more frequent opportunity should, however, be provided and encouragement extended by the various horticultural and floral bodies for small competitive exhibits on cultural points than has thus far been customary, outside of the more ambitious pay shows. At the latter, except in the realm of actual novelties, this feature is of decidedly minor importance.

Show
arrangement
again

EDUCATIONAL EXHIBIT AT WEST PARK, PITTSBURGH, PA.



Showing in miniature a typical unkempt home and in contrast how it may be improved.

Obituary

Louis Colman.

On April 5, Louis Colman, formerly in business as a florist and gardener in Pittsfield and North Adams, Mass., died in Westfield, Mass., on April 5, aged 63 years. His wife and one daughter survive him.

Ira G. Marvin.

Ira G. Marvin, a prominent florist of Wilkes-Barre, Pa., since 1886, died at his home in Kingston, Pa., on April 30. He had been laid up for nine weeks, heart failure causing death. Mr. Marvin was born at Stroudsburg fifty-two years ago. He had branch stores in several towns in the Wyoming valley. His widow and several children, and one brother, Steward Marvin, of Stroudsburg, survive.

Thomas Burke.

Thomas Burke, retired, father of John T. Burke of the florist firm of Burke & Burns of Providence, R. I., died at the home of his son-in-law, Rob't E. Burns, at Hills Grove on April 26, as the result of being struck by an electric car. His age was 75 years. Mr. Burke was a native of Ireland, and came to this country when a youth. He was successful in business and gained a large circle of friends.

John B. Sargent.

John B. Savageau, aged 43, commonly known as John B. Sargent, florist, Winter place, died of blood poisoning at the Leominster, Mass., hospital, on Sunday, April 23, after a short illness. He accidentally scratched one of his fingers and thinking it nothing serious, did not give it the proper care. Blood poisoning developed and Saturday forenoon he was taken to the hospital. His wife passed away two months and two days ago. Mr. Savageau was born in Masonville, R. I., Oct. 2, 1872. When he was 14 years of age he moved to Leominster with his parents. He went to work for Joseph Fuller and learned his trade as florist there. He then went to South Lancaster, where for several years he

worked in the greenhouse and gardens of Eugene V. R. Thayer under E. O. Orpet. After that he went to Bolton and was gardener for J. Wyman Jones. He returned to Leominster three years ago and started the florist business with a greenhouse off Winter Place. He lately added to this by buying another. He leaves three children, John, David and Ida; five brothers and two sisters.

NOT A "USELESS EXPENSE."

We often wonder if those who launch the periodical attacks against the many time-honored customs on the ground of "useless expense" are sincere. We are sure that if they are sincere, if they are not merely striving to be odd, to receive a certain amount of publicity, that they have not well considered the reason for the custom. There are few customs that are better worth following than that of sending a tribute of flowers to those who are in deep grief following the passing into the great beyond of a dear relative or friend.

Recently there was given to the press a diatribe against the custom of sending flowers to funerals. It would seem that the writers of this article had never lost the presence of one near and dear and had never had the sweet consolation of receiving from friends and relatives the beautiful testimony, speaking louder than words, that their sorrow was shared by others.

Flowers do more than express a momentary sympathy. They teach a lesson of hope, they remind that there is a resurrection, a life eternal beyond the grave where the faith in a reunited existence may be experienced. Food and clothing and a roof are essential, but at such a time the call is greater for expressions that relieve the loneliness and remind the sorrower that there is still hope for an assured joy to come. Happily the attack on this beautiful custom met with an immediate response in the very city and publication where it originated.

In reply the writer said: "I believe it is Bulwer Lytton who calls flowers God's children, and I think there are few of us with souls so unpoetic as not to feel enriched and uplifted by

their beauty and fragrance, especially when heavy blighting grief is in the heart. I note that there is a movement in embryo here—indorsed by a few of our most philanthropic women—to stop the kind, graceful custom of sending flowers to the house of mourning. I also notice that there has been some similar effort in different parts of the country, but I take it that these good women have not looked carefully on all sides of this matter.

"In Biblical times the Jewish law decreed that there should be no flowers at funerals; that all should be buried in the pine casket in the simple linen shroud, so that absolute equality might be established, without distinction between rich and poor. 'But things change in the flowing conditions of life,' and our spiritual and material needs are progressive, and we require in these modern days of stress and strain all the softening and refining influences that civilization can afford.

"We have necessarily drifted from some of Israel's most austere ideals, just as we have drifted from Puritan ideals, in the broader demands of art and humanity; but this does not prevent those who are able to send flowers to sorrow-stricken friends from doing their full quota of charity.

"Did we not consider the florists and their large following of girl and women assistants, who prepare the flowers for funerals, we would want them at these tragic times for their expression of a divine energy permeating the universe, we would want them as a vivid reminder of the renewal of all things; as a reminder of that dream of immortality given by our Jewish ancestors thousands of years ago and as symbols of the resurrection of the beloved spirit but lately passed away."—*The Country Beautiful*.

Harrisburg, Pa.—A domestic employed at the home of H. L. Holmes, of the Holmes Seed Co., was terribly burned on the morning of April 21, when her dress ignited from a lighted match carelessly thrown into a coal bucket. Mrs. Holmes, in helping to extinguish the flames had both hands and arms badly burned. It was only by Mrs. Holmes' calmness that the girl's life was saved.

CLUBS AND SOCIETIES

SOCIETY OF AMERICAN FLORIST AND ORNAMENTAL HORTICULTURISTS.

Amendments to Constitution and By Laws.

Proposed amendments to the Constitution and By Laws of the Society of American Florist and Ornamental Horticulturists, adopted at the Executive Board meeting held at the Hotel Concord, New York, on the following day were adopted:

Amendment to Article II.

Article II, Section 2. Elections and Appointments.

Add to Paragraph 1 of Article II, President shall be elected for a term of one year at January 1st of each year. The representative of Washington, D. C., who is elected, shall also be a member of the Board of Directors, and will continue in office until the following year."

Members' Buttons.

Any member joining the society or paying dues at Philadelphia, during the period of the National Flower Show, who did not receive the annual badge button will receive one immediately upon application to the secretary.

National Flower Show—Philadelphia.

The following awards were made in the trade section:

Jos. G. Neidinger, Philadelphia: New Styles in Baskets—certificate of merit.

Schloss Bros., New York. Florists' Ribbons—certificate of merit.

Fulper Pottery Co., Flemington, N. J. Florists' Art Pottery—certificate of merit.

W. H. Dugan, New Rochelle, N. Y. Shades for Greenhouses—honorable mention.

John G. Moninger Co., Chicago, Ill. All-steel-frame Greenhouse Construction—certificate of merit.

Mathews Gardencraft Co., Cleveland, O. Garden Accessories—certificate of merit.

Kirke Chemical Co., Brooklyn, N. Y. Device for Attachment to Hose for Distribution of Fertilizers and Insecticides—certificate of merit.

Pfaltzgraf Pottery Co., York, Pa. Florists' Flower Pots—honorable mention.

A. L. Randall Co., Chicago, Ill. Original and Unique Designs in Flower and Plant Receptacles, Vases and Florists' Designs—certificate of merit.

Any exhibitor desiring duplicate exhibitors' cards or ribbons won at the show should communicate with the secretary.

All cuts and plates used in the Official Souvenir Program have been returned to advertisers.

Vouchers for all cash prizes awarded at the show are now in hand for payment and cheques will be sent out in a few days.

In the list of Guarantors published in the final schedule and Official Souvenir Program, the entry "Some Florists of Minneapolis" should have read "Some Florists of the Twin Cities."

JOHN YOUNG, Sec'y.

Meetings Next Week

Monday, May 8.

Florists and Gardeners Club of New York City, 100 West 42nd St., New York City, N. Y. 8 P. M. New York State Federation of Horticulture, Societies and Clubs, Ithaca, N. Y.

Tuesday, May 9.

Florists and Gardeners Club of New York City, 100 West 42nd St., New York City, N. Y.

Wednesday, May 10.

Cincinnati Florists' Society, Jabez Elliott Flower Market, Cincinnati, O. Dutchess County Horticultural Society, Poughkeepsie, N. Y. Morris County Florists' and Gardeners' Society, Madison, N. J. Nassau County Horticultural Society, Pembroke Hall, Glen Cove, N. Y.

New York State Federation of Horticulture, Societies and Clubs, Ithaca, N. Y.

Friday, May 12.

Connecticut Horticultural Society, County Bldg., Hartford, Conn. Westchester and Fairfield Horticultural Society, Doran's Hall, Greenwich, Conn.

COMING EXHIBITIONS

May 10-14, Boston, May Show Massachusetts Horticultural Society, Horticultural Hall.

HORTICULTURAL SOCIETY OF NEW YORK.

An exhibition will be held by this society on Saturday and Sunday, May 13th and 14th, in the Museum building, New York Botanical Garden, Bronx Park. Prizes are offered for collections of herbaceous plants and shrubs and trees, tulips, narcissus, orchids, sweet peas and snapdragons. Prizes are also offered for plants of pelargoniums and calceolarias. Special prizes may be awarded by the exhibition committee for any exhibit of special merit. Schedules are now ready for distribution and will be sent on application to the secretary, George V. Nash, Mansion, New York Botanical Garden, Bronx Park, N. Y. City.

GEORGE V. NASH, Sec'y.

ST. LOUIS MEETINGS FOR MAY.

St. Louis County Growers' Association, Wednesday, May 3rd, at the Eleven Mile House.

St. Louis Florist Club, Thursday afternoon, May 11th at 2 o'clock, in Odd Fellows' Building.

Lady Florists' Home Circle, at the home of Mrs. A. Windler, Virginia avenue, Wednesday, May 10th, 2 P. M.

Retail Florists' Association, special meeting, Monday, May 15th, 8 P. M. in Mission Inn Garden, a general review of the Easter business will be on tap.

The regular meeting of the Cincinnati Florists' Society will be held Monday evening, May 8th.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The present year appears to be one of more than usual interest in horticultural exhibitions. The success of the two recent flower shows in Philadelphia and New York shows this very emphatically. The next important horticultural event will be the Grand May Flower Show of the Massachusetts Horticultural Society which is to be held in Horticultural Hall, Boston, May 10 to 14, inclusive.

The management of the society is making active preparations for this event and no effort is being spared to make the exhibition a notable success in every way. In addition to the liberal appropriation for premiums made by the society many special prizes are offered by a number of prominent and influential members which will make this show the most brilliant and comprehensive in recent years.

The best products of many of the noted private collections in the vicinity of Boston will be offered to public view, as well as the specialties of the most famous growers of plants and flowers in this and other states. Notable features will be the collections of orchids, rhododendrons, roses, and artistic displays of flowering and foliage plants. A class for miniature Japanese gardens will be one of the novelties of this exhibition. The show will open Wednesday, May 10, at noon, continuing through Thursday, Friday and Saturday from 10 A. M. to 10 P. M., and Sunday from 1 to 10 P. M. The Boston Orchestra will furnish music every afternoon and evening from 3 to 5 and from 7.30 to 9.30 o'clock.

Commercial growers, especially, will find this exhibition an unusual opportunity to call public attention to the products of their greenhouses and nurseries. The premium list which amounts to upwards of \$5000 will be sent on application to the secretary at Horticultural Hall, Boston, and special trade tickets will be sold in lots of twenty-five or more at half the admission fee.

WILLIAM P. RICH, Sec'y.

GARDENERS' ESSAY CONTESTS.

The gardeners' essay contest of the National Association of Gardeners for Ex-President Everitt's gold prizes was recently decided by the following judges, Messrs. Edwin Jenkins, Arthur Smith, William Downs, William J. Stewart and J. Harrison Dick, as follows:

CLASS I.—Subject, "Horticulture as a Profession from the Standpoint of a Gardener," awarded to John Johnson, Southampton, N. Y.

CLASS III.—Subject, "Preparation of Ground for, and General Treatment of Hardy Herbaceous Perennials," awarded to H. E. Downer, Northampton, Mass.

CLASS IV.—Subject, "A Year's Vegetable Supply," awarded to John S. Doig, Southborough, Mass.

CLASS II.—Subject, "The Proper

Grouping and Culture of Trees, Shrubs, Perennials and Annual Bedding Plants in the Ornamentation of Private Grounds," no award was made by the judges as the papers submitted were not of sufficient high merit to warrant an award.

The essay contest for President Craig's prizes of \$25, \$15 and \$10 for the best three papers on any horticultural subject submitted by assistant gardeners is now under way. The contest will close on November 1, and the judges' decision will be rendered at the next convention of the association, which will be held in December. The papers are limited to twenty-five hundred words and must be signed with a nom de plume and forwarded to William H. Waite, chairman of the committee on essays and horticultural instruction, Box 290, Madison, N. J. The contestant, too, must send his full name and address enclosed in an envelope with his nom de plume written plainly on the outside of the envelope to the secretary, M. C. Ebel, Madison, N. J.

As considerable time has been allotted to prepare the essays it is hoped that the number of contestants will be many.

FLORISTS' CLUB OF PHILADELPHIA.

Parker Thayer Barnes, of Harrisburg, was the principal speaker at the meeting of this club held on May 2nd. He gave an able dissertation on that perennial pest—the red spider—and the latest up-to-date methods for control of same. We hope to reproduce this in full in a future issue as it is of great interest to every horticulturist in the country. Robert Kift made an appeal for a fund for Miss Jarvis, the inventor of Mothers' Day. Zieger & Son exhibited some very fell-flowered Hydrangea Otaksa—about the best we have ever seen. H. F. Michell Co. sent

NEW CROP

CALDWELL THE WOODSMAN CO., - EVERGREEN, ALA.

a nice lot of tuberous begonias from their Andalusia nurseries. These were extra choice with immense flowers and fine colors. They also sent a good sized exhibit of Helen Michell geranium. Henry Eichholz exhibited a fine vase of snapdragon in various colors. Tom Daly will be the speaker at the next monthly meeting.

MOTH QUARANTINE.

An extension of the area in the New England States under quarantine against the gipsy moth and brown-tail moth is being considered by the U. S. Department of Agriculture, and a public hearing on this question will be held in Washington at 10 a. m., May 2, 1916. It is proposed to quarantine the following towns in addition to the territory covered by existing quarantines: N. H.: Conway, Thornton, Campton, Ellsworth, Rumney, Warren, Wentworth, Piermont, Orford, Lyme; Vt.: Bradford, Fairlee; Mass.: Ware, Monson; Conn.: Ashford. The result of this quarantine will be to restrict the interstate shipment from the quarantined area of nursery stock, coniferous trees and forest plant products, except in accordance with regulations prescribed by the Secretary of Agriculture.

Paterson, N. J.—The Totowa Floricultural Society will hold their fall dahlia show at Lincoln Hall on Sept. 23 and 24.

Fancy \$1.35 per 1000
Dagger \$1.15 per 1000
Green Sheet Moss for hanging baskets \$1.75 per bag
Perpetuated Moss \$3.50 per bag
Huckleberry Foliage \$2.50 per case
Lyrata (EVERGREEN OAK) \$2.50 per case

During Recess

Lancaster County Florists' Association.

April 27th was ladies' night under the leadership of a committee consisting of Albert M. Herr, chairman, Frank Kohr, Rudolph Nagle, Lemon Landis and Elmer Weaver. There was a cold drizzling rain from 6 A. M. to midnight, but you can not dampen the ardor of this bunch of florists and over fifty were on hand promptly at 6.30 P. M., about one-half of the number being ladies. A small dinner was served by Mrs. Stegeman, the tables being handsomely decorated through the courtesy of Messrs L. Landis, Schroyer, Barr, Edgar, Elmer Weaver and E. P. Hostetter, the ladies all having corsage bouquets of sweet peas and the gentlemen boutonniers of carnations. President Schroyer announced that any man who attempted to make a speech would be thrown out. Mrs. A. M. Herr seized the opportunity and claimed the privilege (not being a man) of thanking the club for this auspiciously begun Ladies' Night and voiced the feelings of every lady present.

After dinner games were in order—cards, bowling, billiards and pool. In the cards Mrs. A. M. Herr won first prize, Mrs. Chas. Tucker, second for ladies, and David Rose first and Mr. W. B. Girvin second for gentlemen. In the bowling duck pins Mrs. Lehman won first ladies' with 102, Mr. Chas. Tucker first gentlemen's with 164, and Mrs. B. F. Barr won the consolation prize with a score of 42.

The thanks of the committee are due to Mrs. Rudolph Nagle who presented us with one of her handsome hand-painted flower pots as a prize for bowling. Mrs. Nagle not only paints her own work but burns it as well and has an artistic reputation that extends beyond the confines of Lancaster. Midnight found the hall deserted and every one on the road home all the better for the night's play.

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One Week's Imports.

Imports at the port of New York of horticultural material for the week ending April 27 were recorded as follows:

Bulbs—France, \$5; Netherlands, \$795; England, \$11.

Plants—Belgium, \$197; France, \$1,949; Netherlands, \$4,211; England, \$6,893; Scotland, \$999; Bermuda, \$74.

Red clover seed—France, \$46,992; Italy, \$32,715; Spain, \$2,571; Clover seed—Canada, \$1,145.

Grass seed—Spain, \$2,378; England, \$2,067; Ireland, \$1,078.

All other seed—France, \$8,726; Italy, \$471; Netherlands, \$2,642; England, \$11,223; Spain, \$735.

Fertilizers—England, \$44; Dutch West Indies, \$150.

A bulletin from the U. S. Dept. of Agriculture describes the difference between white sweet clover, biennial yellow sweet clover and annual yellow sweet clover and tells how to distinguish them apart when handling seed of white sweet clover seed which is usually adulterated to a greater or less extent. Some very flagrant cases of mixtures and incorrect labeling are given. Address Edgar Brown, Seed Laboratory, Bureau of Plant Industry, Washington, for copies of the bulletin and other valuable information.

Milford, Conn.—The Everett B. Clark Seed Company has purchased the two adjacent seed growing establishments including farms, buildings, and equipment of Albertus N. Clark and Clifford E. Clark, seed growers of long standing. The two farms are so situated between the company's own original farm, and the Penn farm purchased a year ago as to join the two and to make the aggregate one complete whole. Albertus N. Clark has addressed the following open letter to the Seed Trade:

I have sold my seed growing establishment and equipment to the Everett B. Clark Seed Company, of Milford, Conn. I have sold from 1908 to 1915, white clover seed, and I have sold the same to the Everett B. Clark Seed Company, of Milford, Conn. I have sold from 1908 to 1915, white clover seed, and I have sold the same to the Everett B. Clark Seed Company, of Milford, Conn. I have sold from 1908 to 1915, white clover seed, and I have sold the same to the Everett B. Clark Seed Company, of Milford, Conn.

Very truly yours,

ALBERTUS N. CLARK

CATALOGUES RECEIVED.

Lager & Hurrell, Summit, N. J.—Illustrated and Descriptive Catalogue and Price List of Orchids. A high-class publication, handsomely illustrated. Brasso-Cattleya Veitchii, Brassavola Digbyana, five species of Cymbidium, Cyrtopodium insigne Sanderæ, Vanda Sanderiana and Vanda teres are illustrated in natural colors.

PUBLICATIONS RECEIVED.

Annual Association of the International Floriculture Society. The annual report by Secretary Colterill contains papers and discussions in full of most direct interest to those engaged in public or private park work. Portland, O., Portland, Mich. Lists are included in the report.

The Carnation Year Book for 1916. Published by the Perpetual Flowering Carnation Society, Burnley, England; edited by J. S. Brunton. This is the official organ of the Society and its 84 pages of contents include much of direct interest to the carnationist. Some spicy notes by the Secretary will be especially enjoyed by American readers. The book, like the preceding issues is printed on heavy paper and substantially bound in red cloth.

Carter's Practical Greenkeeper. Issued by Carter's Tested Seeds, Inc., Boston, Mass. The author of this, the third American edition, is Reginald Beale, F. L. S., manager of Sports and Grass Department. How to make a new putting green or lawn and how to maintain them is here covered in exhaustive detail, filling 64 pages with text and illustrations and making an invaluable manual for any gardener having to do with the construction and care of lawns, putting greens, tennis courts or golf courses.

The report of the Forest Commissioner for 1915 for Newton—"The Garden City of Massachusetts," is an interesting and instructive document, especially for those whose life work is the care of trees and the combatting of the numerous pests that threaten the welfare of the city shade trees. W. W. Colton is Forest Commissioner for this thriving suburban city and this graphically illustrated report of the activities of his department shows that he is rendering efficient service in the difficult work under his supervision.

How to grow roses—This little volume recently published by the Conard & Jones Co. has already been given mention in these columns but we gladly give room to the following extract from a letter in reference to the book, written to Robert Pyle, the author, by W. C. Egan of Highland Park, Ill., a well-known horticulturist:

"I have read it twice and I consider it the most valuable work on roses for America ever sent out. Any one who grows roses if it follows the advice given in it. Its construction is admirable and shows thought and wisdom. The book gives you the instructions in a nutshell. I lay your out on the page 13. I am planting, page 20, and again on pruning are admirable. People remember what the eye teaches them long after they have forgotten written or verbal instructions."

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am glad you quoted Wirth's method of protection in Minneapolis. It is relatively about the same way I use. The whole work is admirable and you should be proud of it."

UNIVERSITY OF ILLINOIS.

Nearly 4,000 people attended the fourth annual exhibition of floral arrangements staged in the Floricultural building on Sunday afternoon, April 16. Not a better day could have been chosen as the weather was ideal.

There were on exhibition many types of corsage bouquets made of various sorts of flowers. Wedding bouquets were also in evidence, including everything from the bridal bouquet to the flower girl's basket. The table decorations illustrated the use of different types of flowers. Besides this there were numerous baskets, funeral designs and sprays, box and vase arrangements, and feature bouquets.

This show is the work of students in Horticulture '32, a course in floral decoration required of all floricultural students. It is merely to give them an idea of what work of this type would be in a florists' establishment during the rush season. The students were assisted by Miss Emily Dorner of Lafayette, Indiana. A. G. H.

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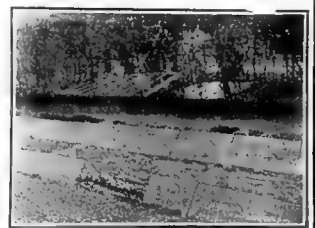
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NEWS NOTES.

Stamford, Ct.—Woundy & Leonard, landscape gardeners, have opened an office at 1 North street.

Lake Forest, Ill.—John Tiplady, gardener for Mrs. Nettie McCormick, has brought suit for \$10,000 against E. O. Orpet for alleged slander.

Peabody, Mass.—James Warde was arrested by United States Deputy Marshal Backus on April 22 charged with using the mails in a scheme to defraud the Perry Nursery Co., of Rochester, N. Y. According to the complaint, Warde sent fictitious orders for plants to the nursery company to collect commissions on them. He pleaded not guilty when arraigned before United States Commissioner Hayes and was released on \$500 bail pending a hearing April 26.

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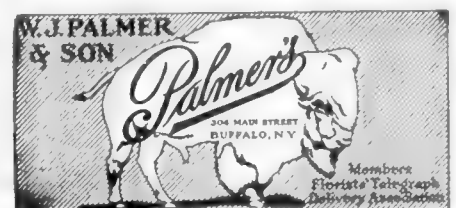
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NEWS ITEMS FROM EVERYWHERE

CHICAGO.

G. Pappa, of Des Moines, Ia., one of the proprietors of the Alpha Floral Co., is again in the hospital.

John Schupp has left the Alpha Floral Co. and will go to Des Moines, Ia., to be with the Wilson Floral Co.

Chas. MacCarley, of the Chicago Flower Growers' Association, is confined to his home this week with illness.

Frank Oechshn has added a small car for light hauls between his new place at 72nd street and Harlem avenue and his plant establishment.

The backwardness of the spring is shown by the fact that the forsythias are in bloom and early tulips and hyacinths are just making their appearance, while leaf buds are only starting on most trees and vines.

Local papers declare this Easter means an outlay of half a million dollars for flowers, grown in and around Chicago, and that this city is the greatest flower distributing point in this country. We modestly add, if the greatest in the United States, why not the greatest in the world?

C. C. Cleminson, 7801 South Shore avenue, has the sympathy of the trade in the loss of his daughter, Thora, aged 19, whose death from blood poisoning occurred April 30. Miss Cleminson assisted her father in his buying and was well and favorably known in the market, where she will be missed.

According to the predictions of some of our wholesalers, longest in the business, carnations will not be able to meet the demand for Mothers' Day, May 14. Incidentally they remark, the carnation cannot be kept as in the past, which practically puts less on the market for any special occasion.

Phil Schupp, manager for J. A. Budlong, says the late Easter proved a good combination with the late season bringing in stock at just the right time. Mr. Schupp is authority on lily of the valley, which is one of their specialties, and he says the June brides will not have to be deprived of

their favorite flower for that firm has a good supply to come regularly through the season.

In the series of articles "What Chicago did for Me" running in a local newspaper the issue of April 21, contains the story and picture of John Mangel, a leading loop florist who came to America from Greece in 1885. Mr. Mangel made his way to Chicago, reaching there with \$3.50 of which he invested \$2.00 in bananas, the following day and began his career as a merchant. He learned the English language on the street and a friendly newsboy taught him to read from the headlines on the papers. Step by step business has advanced from a cart which held his merchandise to one of Chicago's most artistic flower stores. The article closes as follows:—"I have been back to Greece three times and the utter impossibility for the poor to better their conditions there seems more deplorable each time and my heart overflows with gratitude to America."

BOSTON.

McAlpine & McDonald have taken up their new quarters directly across the street from their old place, and have installed a refrigerator 10 x 32.

George Cartwright is laid up in the Peter B. Brigham Hospital with ailments which are as yet unknown. X-ray examinations have failed to disclose anything, and while his condition is not grave he is seriously ill.

The bedding plant season is approaching its height, and between now and Decoration Day the growers expect some lively business. In order to appreciate fully the amount of care and labor put into this work one has but to visit such houses as A. Leuthy, Roslindale. Mr. Leuthy has over 150,000 plants of all varieties in fine condition, and he expects a good season.

Local growers are having serious trouble keeping their Italian laborers as they are demanding wages not to be heard of. Frank Edgar and Charles Evans report that their laborers are leaving upon their refusal to pay them \$3.00 a day or more. The men claim that they can easily make at least \$4.00 a day in the arms and munition factories. Evidently they give this small consideration to the risk involved. Italian laborers are getting more independent and harder to get every day and the growers are facing a critical situation.

St. Louis.—J. J. Beneke, who sold his place of business and lease-hold April 15th, left on last Sunday night for a few days' stay in Chicago. On his return he says he will announce his future plans.

Seymour, Conn.—T. J. Mooney, whose greenhouses are in Kenneytown had a temporary store here for the Easter trade.

PHILADELPHIA.

Helonias bullata is a feature of the Battles store display this week. This is an elegant native bog plant with pink flower racemes two to three inches long, something after the style of musk hyacinth. Has an onion-like root and is easily propagated by divisions.

Mr. and Mrs. Abram L. Pennock arrived on the 2nd, inst., at their old homestead in Lansdowne, from their winter home at Jupiter, Fla. Both well and hearty. The veteran Abram has been very much interested recently in superintending the building of the new pier at Jupiter. He certainly is a wonder for a ninety-five-year-old.

Alfred Burton entertained his fellow heroes (who won fame at the National Flower Show by making it a financial success) on the 28th, ult., at his home at Wyndmoor. They were on the ticket, printing and advertising end and they certainly did wonders, and no one grudges them their full meed of praise for a result for which every committee did great work.

Seventy-five degrees in the shade today, Monday, May 1st. The cherry trees are in bloom, vying with dogwood and lilac; the hyacinths ring their bells with joy; the tulips are holding up their brilliant cups to catch the passing sunbeams. The voice of the lawn mower is heard in the land. Overcoats are discarded and the populace are twelve deep at the seed counters. March and April were mean months but glory be! here it is spring at last!

P. Joseph Lynch, the Indiana cyclone, blew into town on Saturday. It was a little murky overhead for a while but the sky has cleared now and the bad men are beginning to peek out again from the trenches. From all accounts the rose men have had a better year than in 1915 and are again beginning to feel their oats. Glad of it. If Germany will come across with a few cargoes of colors now for next year's catalogs all will be well. In any case we still have black and white, and the latter day artists can make a pretty good job even with that.

FLOWERS BY TELEGRAPH
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Pelicano, Rossi & Co.
129 KEARNY ST.

F. R. PIERSON CO.
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PLANTSMEN
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For Retail Stores a Specialty

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Simple methods of correct accounting especially adapted for florists' use.

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METALLIC WREATHS, ANCHORS, CROSSES, beautifully decorated with flowers on white or green foliage. Our designs are wonderful in their true-to-nature perfection.

MAGNOLIA WREATHS, CYCAS LEAVES and WREATHS, FOR MOTHER'S, MAY 14th, WHITE CARNATIONS, very fine. \$1.80 per 100; large size, \$2.00 per 100

WAX FLOWERS, good to work in Magnolia Wreaths, Sweet Peas, Carnations and Roses.

CREPE FLOWERS of every variety—Lilies, Orchids, Mums, Dahlias, Carnations, Roses and crepe Cape Flowers.

Baskets in Wonderful Variety of Shape and Tint, Brazilian Willow Baskets, Porto Rican Mats, Silk Fibre Ribbon, Japanese Novelties in Decorative Material, School Graduation and Commencement Specialties, etc., etc.

Send for Silent Salesman's Supplement

THE FLORISTS' SUPPLY HOUSE OF AMERICA

H. BAYERSDORFER & CO., 1129 Arch Street, PHILADELPHIA, PA.

PITTSBURGH.

We overlooked to mention last week the fine Easter show at the new William Penn Hotel by Edward Shelton Jones, who has charge of the roof greenhouse for the William Penn and Fort Pitt hotels.

Miss Margaret L. Burns has been added to the salesforce of the A. W. Smith Co. Miss Burns comes from Fairmont, W. Va., where for the past six years she has been with the H. Weber & Sons Co. E. Clarke Stiles, who comes from the Andorra Nurseries, Chestnut Hill, Pa., has been added to the landscape department at Smith's.

PERSONAL.

Thomas V. Brunelle, formerly with Fred Haigis & Co., has taken a position with E. A. Richards, florist, Greenfield, Mass.

Miss Alice Ockerby of London, Eng., and E. A. Butler, horticulturist at the Bussey Institution, Jamaica Plain, Mass., were married on April 26, at Worcester, Mass.

Cincinnati—E. A. Forber's opening on Monday was a success both from an artistic point of view and the number of callers. The store is a large one, well arranged, and gives ample room for display purposes.

Mr. and Mrs. P. J. Olinger have as their guests Mrs. Olinger's mother and sister, Mrs. Mat. Weiland and Miss Helen Weiland, of Evanston, Ill.

A STORE OPENING.



Formal entrance and view of interior of MacRorie & McLaren's new retail store in Powell street, San Francisco, at its opening. A feature of the day was the presentation of a corsage of Phalaenopsis to each patron.

A Florist's Necessity **HART'S HANDY HANDLE**

Fits securely on any standard pot and by the use of a little chif-fon or ribbon gives you a Basket effect at a very small additional expense, increasing the price of your plants 100 per cent.

1	12 inches high,	\$2.50 per doz.	4	24 inches high,	\$5.00 per doz.
2	15 " "	3.50 " "	5	30 " "	6.50 " "
3	18 " "	4.00 " "	6	36 " "	9.00 " "

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If You Have Something To Sell To The Trade For Memorial Day
ADVERTISE IT NOW

If You Want To Buy Anything For Memorial Day Read The Advertisements
This Week and Next Week.

Our Prices Will Interest
YOU!

When in need of
BEAUTIES

Send your orders to
THE LEO NIESSEN CO.

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CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
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122 West 25th St., New York
Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
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Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

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226 DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON May 4		ST. LOUIS May 1		PHILA. May 7	
Roses						
Am. Beauty, Special	20.00	to 25.00	20.00	to 30.00	20.00	to 25.00
" " Fancy and Extra	15.00	to 20.00	15.00	to 18.00	12.00	to 15.00
" " No. 1	4.00	to 8.00	6.00	to 8.00	3.00	to 4.00
Russell, Hadley	4.00	to 12.00	5.00	to 15.00	3.00	to 10.00
Killarney, Richmond, Hillingdon, Ward, Extra	1.00	to 6.00	5.00	to 8.00	6.00	to 10.00
" " Ordinary	1.00	to 2.00	1.00	to 3.00	2.00	to 5.00
Arenburg, Radiance, Taft, Key, Extra	4.00	to 6.00	4.00	to 6.00	6.00	to 10.00
" " Ordinary	3.00	to 3.00	1.00	to 3.00	1.00	to 5.00
Ophelia, Mock, Sunburst, Extra	4.00	to 8.00	5.00	to 8.00	6.00	to 10.00
" " Ordinary	2.00	to 4.00	3.00	to 3.00	4.00	to 6.00
Carnations, Fancy	2.00	to 3.00	2.00	to 3.00	3.00	to 3.00
" " Ordinary	1.00	to 1.50	1.00	to 1.50	1.50	to 2.00
Cattleyas	40.00	to 50.00	60.00	to 75.00	50.00	to 75.00
Dendrobium formosum	10.00	to 35.00	10.00	to 35.00	10.00	to 35.00
Lilies, Longiflorum	6.00	to 8.00	6.00	to 8.00	6.00	to 10.00
" " Rubrum	10.00	to 10.00	10.00	to 10.00	10.00	to 10.00
Callas	7.00	to 8.00	6.00	to 8.00	6.00	to 10.00
Lily of the Valley	4.00	to 5.00	3.00	to 4.00	3.00	to 5.00
Daisies	1.00	to 2.00	.50	to 1.00	.40	to 1.50
Violets	.40	to .50	1.00	to 1.00	.35	to .50
Mignonette	2.00	to 4.00	2.00	to 4.00	2.00	to 4.00
Snapdragon	4.00	to 8.00	4.00	to 8.00	2.00	to 12.50
Daffodils	.25	to 1.00	1.00	to 2.00	2.00	to 3.00
Gladioli	6.00	to 10.00	10.00	to 10.00	5.00	to 8.00
Tulips	2.00	to 3.00	2.00	to 4.00	2.00	to 3.00
Hyacinths	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00
Freesia	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00
Calendulas	1.00	to 2.00	1.00	to 2.00	1.00	to 3.00
Lilac "per bunch"	.25	to .50	1.00	to 1.00	.25	to .50
Sweet Peas	.25	to .75	.15	to .25	.50	to 1.50
Gardenias	12.00	to 20.00	10.00	to 10.00	3.00	to 15.00
Adiantum	1.00	to 1.00	1.00	to 1.00	1.00	to 1.00
Smilax	12.00	to 16.00	12.00	to 15.00	20.00	to 25.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	25.00	to 35.00	18.00	to 15.00	25.00	to 50.00

WILLIAM F. KASTING Co.

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383-387 ELLICOTT ST. - - - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

Flower Market Reports

BOSTON With the exception of Monday morning's trading which was brisk, the market has been rather quiet. In fact a decided slump has been reported by carnation salesmen, due, they claim, to the warm weather which causes the growers to cut a larger number than ordinarily. Prices are rather low on all varieties. Roses, while not so sluggish, are none too brisk and prices have dropped considerably. Sweet peas are barely moving and the market is getting more crowded with them. The only scarce thing is lily of the valley. Narcissi, especially bi-colored, are going nicely and irises seem to be doing well. Lilies are abundant, but stationary, and gladioli are but a trifle stronger. The entire market lacks that virility which has been so noticeable for the past few weeks and the growers are eagerly awaiting the Decoration Day and June harvest.

By all reports from **BUFFALO** flower merchants about the city and locally the Easter business was without a doubt the best ever experienced in Buffalo. Trade began early and continued up to Sunday noon and it was a hustle for everyone throughout the week. The plant business was excellent. Of lilies there were more than previous years yet the price was even better and the sales were clean. Hydrangeas were good and plentiful and brought good prices. Azaleas sold well though not too plentiful. There was a fine lot of hybrid and rambler roses and pans of bulbous stock which all cleaned up to advantage. The cut-flower trade was good and the supply on all lines (except possibly sweet peas) was plentiful enough. Violets were fairly good, roses were in enormous supply and the demand fell heavy on colored varieties. Carnations brought a good price and all shipments carried satisfactory. More American Beauties were sold than on any other Easter, the prices being within reach of all. Cut lilies also cleaned up quite satisfactorily. The week following Easter was quite lively with stock a little on the scarce side.

The quality of flowers coming into this market now seems large, but in reality is not larger than the supply of last week, the demand making the difference. So great was the call for Easter stock that the rapidity with which it passed from the boxes to the customers made it appear that there was much less coming in than this week, when every kind seems in such abundance. Cattleyas are the only scarce article and they are far from being in sufficient supply. Sweet peas quickly caught up again and now counters show a large quantity of that favorite and they sell quickly when prices suit customers. Carnations are not much in excess of demand when quality is good, but it is a noticeable fact that when this flower is in good supply there is always a considerable proportion of very poor stock. American Beauties of good quality are not so scarce as heretofore. All kinds of roses are to be had and iris and snapdragon in splendid quality are coming. Bulbous stock is practically gone.



Mrs. Charles Russell

As the weather gets warmer the quality of this wonderful rose really improves, and splendid stock it is.

	Per 100
Special	\$45.00
Fancy	12.00
Extra	10.00
First	8.00
Second	6.00

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WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI May 1		CHICAGO May 1		BUFFALO May 1		PITTSBURG May 1	
Roses								
Am. Beauty, Special	40.00	to 50.00	30.00	to 40.00	20.00	to 25.00	25.00	to 35.00
" " Fancy and Extra	25.00	to 35.00	20.00	to 30.00	15.00	to 20.00	20.00	to 25.00
" " No. 1	10.00	to 20.00	10.00	to 15.00	8.00	to 10.00	10.00	to 15.00
Russell, Hadley	8.00	to 15.00	4.00	to 25.00	6.00	to 8.00	4.00	to 15.00
Kilgusney, Richm'd, Hill'don, Ward	8.00	to 12.00	8.00	to 12.00	4.00	to 6.00	6.00	to 10.00
" " Ord.	4.00	to 6.00	3.00	to 6.00	3.00	to 4.00	4.00	to 6.00
Arenburg, Radiance, Taft, Key, Ex.	8.00	to 12.00	8.00	to 12.00	6.00	to 8.00	6.00	to 10.00
" " Ord.	4.00	to 6.00	3.00	to 6.00	3.00	to 4.00	4.00	to 6.00
Ophelia, Mock, Sunburst, Extra	8.00	to 12.00	8.00	to 15.00	6.00	to 8.00	8.00	to 12.00
" " Ordinary	4.00	to 6.00	3.00	to 5.00	3.00	to 4.00	4.00	to 6.00
Carnations, Fancy	2.00	to 4.00	3.00	to 5.00	2.00	to 3.00	3.00	to 4.00
" " Ordinary	1.00	to 2.00	2.00	to 3.00	1.00	to 1.50	1.50	to 2.00
Cattleyas	50.00	to 65.00	50.00	to 75.00	40.00	to 50.00	40.00	to 50.00
Dendrobium formosum	10.00	to 12.00	8.00	to 12.00	6.00	to 10.00	5.00	to 10.00
Lilies, Longiflorum	10.00	to 12.00	8.00	to 12.00	6.00	to 10.00	5.00	to 10.00
" " Rubrum	10.00	to 12.00	8.00	to 12.00	6.00	to 10.00	5.00	to 10.00
Callas	8.00	to 10.00	6.00	to 12.00	6.00	to 10.00	6.00	to 10.00
Lily of the Valley	5.00	to 10.00	3.00	to 4.00	4.00	to 5.00	3.00	to 6.00
Daisies	.50	to .75	1.00	to 2.00	1.00	to 2.00	1.50	to 3.00
Violets	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50
Mignonette	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50
Snapdragon	6.00	to 12.00	6.00	to 12.00	3.00	to 6.00	8.00	to 12.00
Daffodils	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00	2.00	to 4.00
Gladioli	4.00	to 6.00	4.00	to 6.00	4.00	to 6.00	4.00	to 6.00
Tulips	2.00	to 3.00	2.00	to 3.00	1.00	to 2.00	2.00	to 4.00
Hyacinths	3.00	to 4.00	3.00	to 4.00	1.00	to 2.00	3.00	to 4.00
Freesia	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00
Calendulas	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00
Lilac (per bunch)	.50	to .60	1.00	to 1.50	.25	to 1.00	1.00	to 1.50
Sweet Peas	.35	to 1.00	.75	to 1.50	.50	to 1.50	.50	to 1.00
Gardenias	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00
Adiantum	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00
Smilax	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to 30.00	25.00	to 30.00	25.00	to 30.00	25.00	to 30.00

CINCINNATI For Mothers' Day nearly everything is in a good supply. Carnations, however, will probably run short of needs. Since Easter a steady active demand has kept the market pretty well cleaned up. Shipping business is good. Roses continue in a heavy supply, including American Beauty. Lilies and sweet peas are plentiful. Snapdragon is meeting with a fair demand. Outdoor lilacs have a good market. Neither cattleyas nor lily of the valley may be had in any fair quantities. New ferns are in the market.

NEW YORK Normal market conditions are now fully restored after the Easter fuss. Considerable business is being done but the supply of material generally is well in excess of the legitimate needs of the market. Consequently values are tending downward as is the case every year at this time. Roses are coming in heavily and of very fine quality. There is an abundance

of every other staple flower. Considerable entertaining is going on and there have been a good many weddings and other affairs calling for choice goods such as gardenias, cattleyas and lily of the valley. The first-named are plentiful enough but the other two items continue in light supply. Cattleyas will soon recover but the supply of lily of the valley after the out-door cut has been disposed of is rather in doubt and a higher range of prices for this particular commodity is regarded as certain. Violets are finished up for the season. As to snapdragons, if half the quantity coming in were eliminated entirely "they never would be missed."

The only scarce **PHILADELPHIA** items on the list at present are cattleyas and lily of the valley. The former bid fair to be more plentiful in a few days and with a decreasing demand a sharp drop in prices is in order. The last named will be scarcer

(Continued on page 120)

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Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK
Telephone: 2200, 2201, Madison Square.

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Call and inspect the Best Establishment
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Laurel, Hemlock, all Decorative Evergreens.
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ROSES AND CARNATIONS

	Last Half of Week ending Apr. 29 1916		First Half of Week beginning May 1 1916	
American Beauty, Special	20.00	to 25.00	20.00	to 25.00
" " Fancy and Extra	10.00	to 15.00	10.00	to 15.00
" " No. 1	3.00	to 6.00	3.00	to 6.00
Russell, Hadley	6.00	to 10.00	6.00	to 10.00
Killarney, Richmond, Hillingdon, Ward, Extra	4.00	to 6.00	4.00	to 6.00
" " Ordinary	2.00	to 3.00	2.00	to 3.00
Arenburg, Radiance, Taft, Key, Extra	6.00	to 8.00	6.00	to 8.00
" " Ordinary	2.00	to 4.00	2.00	to 4.00
Ophelia, Mock, Sunburst, Extra	6.00	to 10.00	6.00	to 10.00
" " Ordinary	2.00	to 4.00	2.00	to 4.00
Carnations, Fancy	1.50	to 2.50	1.50	to 3.00
" " Ordinary	1.00	to 1.50	1.00	to 1.50

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MAURICE L. GLASS, Treasurer

Consignments Solicited

Flower Market Reports

(Continued from page 641)

if anything and the present high figures are likely to hold firm. Carnations are in fine shape and selling well. The same may be said of sweet peas. Roses are rather more plentiful and easier in price. Lilies are too many—especially of the poorer grades. Among out-door flowers the most prominent items at present seem to be lilac, forsythia and dogwood.

PITTSBURGH Concerning flowers, the harvest is great but the buyers are few, for at the time of writing nearly forty-eight hours of the Pittsburgh Railway Company employees' strike has practically paralysed business of all kinds. Those who risk the congestion of the railroad, jitney and private automobile traffic have more practical errands than the esthetic and sentimental, and nothing less than funeral demands are considered in the way of flower buying. However, the florists, wholesale and retail, are having a chance to catch up a little in the way of sleep and rest lost at Easter which is still talked of as being by far the best ever experienced here. The few flowers which were increased in price, have again dropped to normal.

ST. LOUIS Since Easter the cut flower market has been in an over supply condition. Outdoor stock is coming in now and the greenhouse production has suffered from this. Roses and carnations are hardly looked at, also sweet peas. The state of affairs has forced prices down to the lowest notch. On Saturday, April 29, the market cleaned up fine. Wild ferns are up to \$3.00 per 1,000; other greens are in plenty.

VISITORS' REGISTER.

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MISCELLANEOUS	Last Half of Week ending Apr. 29 1916		First Half of Week beginning May 1 1916	
Cattleyas	40.00	to 75.00	25.00	to 75.00
Dendrobium formosum	20.00	to 35.00	20.00	to 35.00
Lilies, Longiflorum	3.00	to 6.00	4.00	to 6.00
Rubrum .....	.....	to .....	.....	to
Callas	6.00	to 8.00	6.00	to 8.00
Lily of the Valley	4.00	to 5.00	4.00	to 5.00
Daisies .....	.50	to 1.00	.50	to 1.00
Violets .....	.40	to .60	.40	to .60
Mignonette	2.00	to 6.00	2.00	to 6.00
Snappdragon	3.00	to 8.00	3.00	to 8.00
Daffodils	2.00	to 3.00	2.00	to 3.00
Gladioli	6.00	to 8.00	6.00	to 8.00
Tulips	2.00	to 3.00	2.00	to 3.00
Hyacinths	1.00	to 2.00	1.00	to 2.00
Freesia .....	.....	to .....	.....	to
Calendulas	1.00	to 2.00	1.00	to 2.00
Lilac (per bunch) .....	.25	to .50	.25	to .50
Sweet Peas .....	.25	to 1.00	.25	to 1.00
Gardenias	8.00	to 15.00	8.00	to 15.00
Adiantum .....	.50	to 2.00	.50	to 2.00
Smilax	8.00	to 20.00	8.00	to 20.00
Asparagus Plumosus, & Spren (100 bunches)	15.00	to 25.00	15.00	to 25.00

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Advertisers in this issue are also listed under the classification without charge. Reference to List of Advertisers will give the respective pages.

Buyers are invited to send what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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N. ...
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ASPARAGUS

W. H. L. H. Brighton, Mass.
Asparagus Plumosus Natus Seeds.
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Asparagus Plumosus Seedlings, \$5.00 per 1000. Ready May 1st. COLLINGDALE GREENHOUSES, Collingdale, Pa.

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The MacNitt Horticulturist Co.,
New York City.
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Plant Auctioneers.
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BAY TREES. Write for wholesale price-list.
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Thomas J. Grey Co., 29 So. Market St.,
Boston, Mass.
Begonia, Marlemont Bedder.

BEGONIAS

Delivery from May 15th.
Lorraine, 2 1/2 in. pots, \$12.00 per 100; Cincinnati, 2 1/2 in. pots, \$15.00 per 100; Mrs. J. A. Peterson (New), 2 1/2 in. pots, \$25.00 per 100. \$200.00 per 1000.
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Edwards ...
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Folding cut flower boxes ...
Write for list. HOLTON & HUNKLE CO.
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BOX TREES—Standards, Pyramids and Bush. Price list on demand.
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Fottler, Fliske, Rawson Co., Boston, Mass.

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Bulbs of all descriptions. Write for prices.
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New Carnation Cottage Maid.
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Seedling Carnation Laura Weber.

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Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 25c.; 3000 for \$1.00 post paid. L. L. PILLSBURY, Galesburg, Ill.

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\$1.00 per 100 \$1.00 per 1000
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B. Bronze Leafed

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Black Beauty, Im. Gladiolus
proved, B. Gladitor
Black Prince, Jupiter, B.
Black Warrior, Mrs. Geo. A. Stroh
Brandywine, B. Jean, B.
Duke of Marlboro

YELLOWES

Brilliant, Coronet Improved
Buttercup, Tall Dr. Nansen
Charles Lutz, Wyoming, B.

VARIETATED

Adonis, Richard Wallace
Durban, Golden Gate
California, Director Holtze
Cloth of Gold

ALSO

Conowingo, B. Red Per 100
Kate F. Deemer, Yellow, \$4.00
Wm. Saunders, B. Red, 4.00
Walash, B. Pink, 7.50

The Stock is Sold.
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West Grove, Pa.

Rowan J. Irwin, New York City.
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New Chrysanthemum Catalogue for 1916.
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Guttman & Raynor, Inc., New York City
Early Lavender Pink Chrysanthemum
Alex Guttman, also Emma, a Garza
Anemone, Double Pompon,
pale pink.

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MANNETTO HILL NURSERIES,
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Magic Humus.

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Wizard Brand Cattle Manure.

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Pecky Cypress.

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DAY OUTFIT**

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LILY OF THE VALLEY PIPS

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 Nursery Stock and Potted Plants
 Wanted.
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ORCHID PLANTS

- Julius Recker Co., Rutherford, N. J.
 Sider & Sons, St. Albans, England.
 Walter Gott, McAlpin Hotel, N. Y. City.
 Book of Orchid Hybrids.
 I. Ger & Hurrell, Summit, N. J.
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- 225,000 large, stocky (Sept. transplanted),
 field-grown blooming pansy plants, Henry
 Mette's strain, all reliable stock, satisfac-
 tion guaranteed, \$1.00 per 100; \$10.00 per
 1000. Cash. Prompt shipping. **BRILL
 CELERY GARDENS**, Kalamazoo, Mich.

Pansies, the big plant flowering kind,
 \$3.00 per 100; in bud and blo. \$5.00 and
 \$15.00 per 1000. Cash. If I could only
 show the nice plants, hundreds of testi-
 monials and repeat orders I would be
 flooded with new business. **JAMES MOSS**,
 Johnsville, Pa.

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- The Cloche Co., New York City.
 Collapsible Paper Boxes.
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PETUNIAS

- R. Vincent, Jr. & Sons Co., White Marsh,
 Md.
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- King Construction Company,
 N. Tonawanda, N. Y.
 Shelf Brackets and Pipe Hangers.
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- Pfaff & Kendall, Newark, N. J.
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PLANT AND BULB IMPORTS

- C. S. Newell & Co., New York City.
 August Recker & Sons, New York City.
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 ises. **H. D. STELL & SONS**, Elkhart, Ind.

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POLYANTHUS

- William Sim, Cliffondale, Mass.
 Slim's Hybrid Yellow.
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RAFFIA

- McHutchison & Co., New York, N. Y.
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RHODODENDRONS

- P. Ouwerkerk, Hoboken, N. J.
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RIBBONS AND CHIFFONS

- S. S. Pennock-Meehan Co., Philadelphia, Pa.
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ROSES

- A. T. Boddington Co., Inc., New York City.
 Hardy Roses.
 Charles H. Tetty, Madison, N. J.
 Grafted Roses.
 P. Ouwerkerk, Hoboken, N. J.
 W. & T. Smith Co., Geneva, N. Y.
 American Grown Roses.
 Bay State Nurseries, North Abington, Mass.
 A. N. Pierson, Inc., Cromwell, Conn.
 Guttman & Rayner, Inc., New York City.
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THE CONARD & JONES COMPANY.

- Rose Specialists.
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- Carter's Tested Seeds.
 Seeds with a Pedigree.
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 Joseph Breck & Sons, Boston, Mass.
 J. Belgiano & Son, Baltimore, Md.

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 Chas. Schwake & Co., New York City.
 Michell's Seed House, Philadelphia, Pa.
 W. Atlee Burpee & Co., Philadelphia, Pa.
 R. & J. Farquhar & Co., Boston, Mass.

- J. M. Thorburn & Co., New York City.
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SEEDS—Continued

- Loechner & Co., New York City
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 Ant. C. Zvolanek, Lompoc, Cal.
 Winter Flowering Sweet Pea Seed
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 Snapdragon
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 W. E. Marshall & Co., New York City.
 Seeds, Plants and Bulbs
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Jas. Vick's Sons, Rochester, N. Y.
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- August Recker & Sons, New York City.
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- Burnett Bros., 98 Chambers St., New York.
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- Leonard Seed Co., Chicago, Ill.
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- Fottler, Fliske, Rawson Co., Boston, Mass.
 Seeds for the Florist.

SEED AND PLANT FORCER

- The Cloche Co., New York City.
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- New England Florist Supply Co.,
 Boston, Mass.
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- Live Sphagnum moss, orchid peat and
 orchid baskets always on hand. **LAGER
 & HURRELL**, Summit, N. J.

SHELF BRACKETS

- Metropolitan Material Co., Brooklyn, N. Y.
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SUN DIALS

- The M. D. Jones Co., Boston, Mass.
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- Joseph Manda, West Orange, N. J.
 New Orchid Colored.

SWEET PEA SEED

- Ant. C. Zvolanek, Lompoc, Calif.
 Gold Medal of Honor Winter Orchid Sweet
 Peas.
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- J. M. Thorburn & Co., New York City.

VASES

- H. Bayersdorfer & Co., Philadelphia, Pa.
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VEGETABLE PLANTS

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 White Marsh, Md.
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 Celery Plants: Golden Self-Blanching
 (French strain); fine plants, ready now;
 \$2.00 per 1000. Cash. Special prices on
 large lots. **BRILL CELERY GARDENS**,
 Kalamazoo, Mich.

VENTILATING APPARATUS

- The Advance Co., Richmond, Ind.
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 The John A. Evans Co., Richmond, Ind.
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VERMICIDES

- Aphine Mfg. Co., Madison, N. J.
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WEED KILLER

- Pino-Lyptol Chemical Co., New York City.
 Pino-Lyptol Weed Killer.
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WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
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WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
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WIREWORK

Reed & Keller, New York City.
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WILLIAM E. HEILSCHER'S WIRE
WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
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Baltimore

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James McManus, 105 W. 28th St.
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W. F. Sheridan, 133 W. 28th St.
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P. J. Smith, 131 West 28th St.
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Moore, Hentz & Nash, 55 and 57 W. 26th St.
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Charles Millang, 55 and 57 West 26th St.
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W. P. Ford, 107 W. 28th St.
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J. K. Allen, 118 West 28th St.
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The S. S. Pennock-Meehan Co., 117 West
28th St.
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Truendly & Schenck, 436 6th Ave., between
26th and 27th Sts.
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Budgley & Bishop, Inc., 34 West 28th St.
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Woodrow & Marketos, 37 and 39 W. 28th St.
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Riedel & Meyer, Inc., 49 West 28th St.
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WHOLESALE FLORISTS

New York—Continued

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M. C. Ford, 121 West 28th St.
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United Cut Flower Co., Inc., 111 W. 28th St.
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Gunther Bros., 110 West 28th St.
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Henry M. Robinson Co., 55-57 W. 28th St.
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W. R. Siebrecht, 114 West 28th St.
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Herman Weiss, 106 West 28th St.
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J. J. Coan, 115 West 28th St.
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Philadelphia

Leo. Niessen Co., 12th and Race Sts.
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Edward Reid, 1619-21 Ransstead St.
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The S. S. Pennock-Meehan Co., 1608-20
Ludlow St.
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Richmond, Ind.

E. G. Hill Co.
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Rochester, N. Y.

George B. Hart, 21 Stone St.
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Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
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New Offers In This Issue**GLADIOLUS.**

J. M. Thorburn & Co., New York City.
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GREENHOUSE CONSTRUCTION.

Metropolitan Material Co., Brooklyn, N. Y.
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MEMORIAL DAY SUPPLIES.

H. Bayersdorfer & Co., Philadelphia, Pa.
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ECLIPSE.**

Thomas J. Grey Co., Boston, Mass.
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GERANIUMS—PETUNIAS AND
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R. Vincent, Jr. & Sons Co.,
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ROSE MRS. CHARLES RUSSELL.
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TREE SURGERY.

The Davey Tree Expert Co., Kent, Ohio.
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WANTS, FOR SALE, ETC.

Advertisements in this column
one cent a word. Initials count as
as words. Cash with order. All
correspondence addressed "Care
HORTICULTURE" should be sent
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FOREMAN GARDENER with 17 years
experience on large private estates, expects
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perience in all branches of Horticulture
both under glass and outside; well up in
alpine and herbaceous plants, and all work
in general on a private estate. Good refer-
ences. Married, no family. "F. L." care
HORTICULTURE.

POSITION WANTED by reliable young
man of good character (20) as assistant
gardener on private place or nursery. Gen-
eral experience in Horticulture and Orchard
work. References furnished. Good accom-
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considered. Please state particulars and
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buying, 10,000 to 20,000 ft. of glass with
dwelling house. Massachusetts state pre-
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letter. Address "T." care HORTICUL-
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The unique monthly publica-
tion which furnishes reliable
and interesting up-to-date in-
formation regarding the value
of pecans and other edible nuts
and how to grow them for profit.

Subscription, \$1.00 per year

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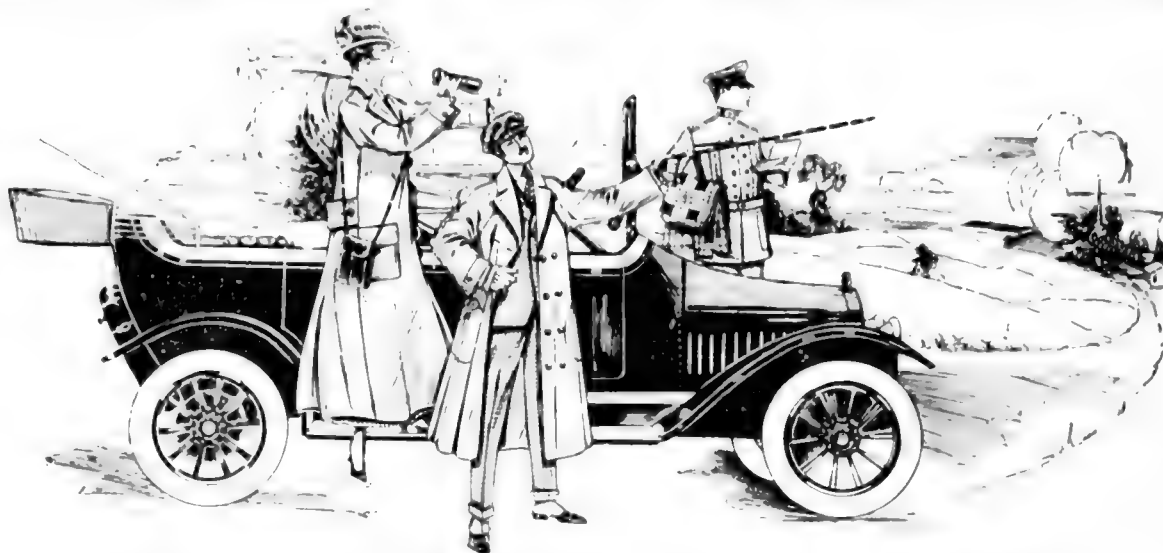
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A NEW DISCOVERY IN FABRICS

A Material from which Wrinkles Disappear Without Pressing

THE HAMILTON NON-WRINKLE DUSTER



PROTECT YOUR CLOTHING WHILE AUTOMOBILING OR DRIVING

HAMILTON NON-WRINKLE DUSTERS are made from a new fabric.

The Dusters can be used in the Auto all day, placed upon a hanger at night and all wrinkles will have disappeared in the morning.

This fabric is soft in finish, heavy enough to withstand the hardest usage, yet light in weight and cool.

The fabric is linen color and is exceptionally attractive, and as it has been shrunk, the Coats may be washed when necessary, and will look like new.

The Women's Coat is made with a full skirt, single breasted, patch pockets, and collar that can be buttoned up close to the neck. It is trimmed with very attractive buttons, and has the belted back.

The Men's coat is made double breasted, side slashed pockets, sleeve tabs, high collar, finished with attractive buttons, and has the belted back.

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We guarantee every HAMILTON NON-WRINKLE DUSTER to be exactly as represented, and if it is not entirely satisfactory when received, it may be returned to us, and we will cheerfully refund the purchase price.

Sizes Both Women's and Men's 34 to 36

Price \$5.95

Sent Parcel Post Prepaid

We Sell Only Direct from Factory to User, Saving Our Customers, the Jobbers' and Retailers' Profits. We Cheerfully Refund Your Money If You Are Not Entirely Satisfied.

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Let us prevent Moth damage in your home, save you storage charges on Furs and Fur Coats, and give absolute protection to your Furs and Clothing from Moths, Germs and Dust.

Full particulars sent on request.

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BOSTON, MASS.

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Enclosed find \$5.95 for which send me one HAMILTON NON-WRINKLE DUSTER, Parcel Post PREPAID, with the understanding that if it is not entirely satisfactory when received, it may be returned, and you will refund the purchase price.

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PINO-LYPTOL

WEED KILLER

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

P.-L. CHEMICAL CO., 507-509 W. 19th St., New York
CORRESPONDENCE SOLICITED.

FERTILIZERS FOR ROSES

A Paper by Prof. F. W. Muncie at Moline, Ill.

Type of fertilizer needed—The soil in the vicinity of the Experiment Station is a brown silt loam. On such a soil applications of phosphatic fertilizer yield greatest increases in crops. Nitrogenous fertilizer is also needed, but applications of potassium sulfate not only give no increased crop but decrease the yield.

Time to feed—The periods of heavy feeding should be during the periods of most rapid growth, viz., in fall and spring when sunshine is abundant enough not to limit growth. Fertilization is particularly needed in spring when the soil mixture is to the greatest extent depleted of its readily available content of plant food. While keeping this in mind, attention should also be paid to the periods of heavier production by the plants, when more fertilizer is needed. Phosphate gives an increase in production continuous throughout the year.

Specific kinds of fertilizer—Acid phosphate, used in these experiments, was found a satisfactory form of phosphatic fertilizer. No comparison was made, however, between it and bone meal, basic slag, and other phosphate-containing fertilizing materials. Dried blood and ammonium sulfate may each be used as nitrogenous fertilizers. The care necessary to prevent overfeeding with ammonium sulfate is so great, however, that its use is hardly to be recommended. The same precaution is necessary, but to a somewhat less degree, with sodium nitrate.

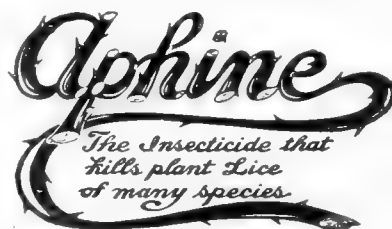
Nitrogen supplied in manure or commercial fertilizer—Applications of dried blood at the rate of 5 pounds per 100 square feet of bench space are safe, if put on only during periods of bright sunshine and of heavy production by the plants, and if not made oftener than four to six weeks apart. The amount of nitrogen in such an application corresponds to that contained in 270 pounds of manure of the average nitrogen content (50 percent moisture); it is some-

what more readily available than part of that in good manure. These comparative figures give a basis for the use of either material, however, and show that the need for nitrogenous fertilizer may be supplied as manure, quite as well as by the use of a commercial fertilizer. The symptom of nitrogen starvation—lightening of the color of the foliage—is so evident to every rose grower, that there is no difficulty in determining when applications of a nitrogen-containing fertilizer should be made.

Phosphorus in manure and in acid phosphate—Plants do not show such marked signs of the need for phosphorus, and experiment alone can determine its need. Applications of acid phosphate up to 20 pounds per 100 square feet of bench space (40 pounds per 100 cubic feet of soil) were found to give marked increases in production. The quantity of phosphorus contained in this application is equal to that contained in an application of 2800 pounds of manure of average composition (50 percent moisture) to 100 square feet of bench space or twice this amount mixed with 100 cubic feet of soil. Since manifestly it is impossible to use such a mixture, the need for phosphate in form of a commercial fertilizer is evident. Acid phosphate, the only form of phosphatic fertilizer used in the experiment, is, as stated, satisfactory. Since the benefit from its use is continuous throughout the year, it should be mixed with the soil before the benches are filled. Top-dressings with it are not so satisfactory, since surface root growth is stimulated in this way, resulting in the roots having contact with the soil particles only in an upper layer of the soil in the bench. There is no danger from overfeeding with acid phosphate, for four times the quantity here recommended has been applied without injury. In this respect acid phosphate possessed an advantage over bone, which cannot be mixed with soil or applied as top-dressings in excessive amounts without injuring the plants. The same is true to a greater extent with high phosphate tankage, and blood and bone.

Use of lime—With such a need for phosphorus by rose plants, the use of lime or limestone with acid phosphate is to be discouraged, since the solu-

bility of the phosphate would be decreased by its use. The decrease in production from sections in which limestone was used in the soil mixture compared with that from sections receiving no lime is fully proven by the data. The mixing of lime or limestone with the soil, though quite a common practice among growers, cannot be recommended. In case an application of lime is needed to prevent the growth of algae and moulds on the soil surface, finely ground limestone applied as a top-dressing at the rate of 10 pounds per 100 square feet of bench



The Recognized Standard Insecticide.
A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

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A 12% nicotine solution properly diluted for fumigating or vaporizing.

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Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

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For Spraying
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Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

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World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

Species of roses are planted into the soil. The soil used in the experiment described in the preceding pages was of the type known as the brown silt loam. A description of the various soil types of the state of Illinois, with their fertility is given in Bulletin 123, Ill. Agr. Exp. Sta. which should be studied by every florist in connection with these experiments. The need for nitrogen may be judged from the appearance of the plants, and the loss made good by the addition of manure or dried blood. A more better method is to obtain, at the beginning of the season, a soil of higher nitrogen content, by selection of sod soil, heavy manuring, or turning under of green manure. These experiments have shown a need for addition of a phosphatic fertilizer and with a low phosphorus content a property common to practically all Illinois soils, the recommendations are applicable to any of these soils. Since acid phosphate produces no injury when applied in very large quantities, there is no reason to fear making an excessive application of it.

Comparison of various soils of the state. The soil used in the experiment described in the preceding pages was of the type known as the brown silt loam. A description of the various soil types of the state of Illinois, with their fertility is given in Bulletin 123, Ill. Agr. Exp. Sta. which should be studied by every florist in connection with these experiments. The need for nitrogen may be judged from the appearance of the plants, and the loss made good by the addition of manure or dried blood. A more better method is to obtain, at the beginning of the season, a soil of higher nitrogen content, by selection of sod soil, heavy manuring, or turning under of green manure. These experiments have shown a need for addition of a phosphatic fertilizer and with a low phosphorus content a property common to practically all Illinois soils, the recommendations are applicable to any of these soils. Since acid phosphate produces no injury when applied in very large quantities, there is no reason to fear making an excessive application of it.

Few soils need applications of potassium—On peat and sandy soils alone

is there danger of a lack of potassium, and considerations of watering and proper soil texture prevent the use of these soils in the growing of roses.

Recommendations—On the basis of these conclusions the following recommendations are made:

(1) Keep up the nitrogen content of the soil by turning under green or farm manure before use. If roses show signs of nitrogen starvation—a lightening of color of the foliage—make up the need with applications of liquid manure, mulches of manure, or top-dressing of dried blood—the last in applications not exceeding 5 pounds per 100 square feet of bench space and applied not oftener than four weeks apart. Feed only during sunny weather and most generously during periods of heavy production.

(2) Use generous quantities of acid phosphate in the soil. It may be added (a) at the rate of 4 to 8 tons per acre in the field, (b) in a compost with soil at the rate of 40 to 80 pounds per 100 cubic feet of soil, (c) or mixed with the soil at the same rate, just previous to filling the benches.

(3) Do not mix lime or limestone with the soil. If needed for sweetening the soil and preventing the growth of algae, make a top-dressing of finely ground limestone at the rate of 10 pounds per 100 square feet of bench space.

**GREENHOUSES BUILDING OR
CONTEMPLATED.**

Camden, N. J.—A. C. Stack, house 24x85.

Providence, R. I.—J. E. Koppelman, three houses.

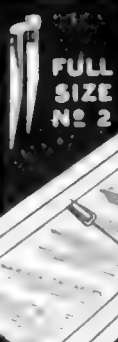
Hartford, Ct.—John Coombs, South street, house 9½ x 54.

Mankato, Kan.—A. J. Kramer, two houses each 20 x 100.

Lincoln, Ill.—Gullett & Sons, one house 60 x 500, two houses each 60 x 100, packing house 17 x 30, American Greenhouse Mfg. Co. construction.

Lord & Burnham Company have the contracts to build for the following: W. W. Edgar Co., Waverley, Mass., standard semi-iron house, 126' x 33' 4"; Miss Fancy Foster, Newport, R. I., complete iron frame, private greenhouse; Mrs. F. G. Webster, Squam Lake, N. H., iron frame greenhouse range; Lester Leland, West Manchester, Mass., cold storage house.

Scotch Plains, N. J.—Arthur C. Ruzicka has leased a range of greenhouses here and will go into business on his own account. Mr. Ruzicka is an expert rose grower and well-known as HORTICULTURE's correspondent on rose culture under glass.



**Dreer's Peerless
Glazing Points**
For Greenhouses

Drive easy and true, because both bevels are on the same side. Can twist and break the glass in driving, galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.

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714 Chestnut Street,
Philadelphia.

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SIZE
No 2**



**MOST PRACTICAL
Shelf Bracket**

On this Shelf Bracket 2 6-inch boards; or 2 1-inch, or 1 1/2-inch pipes are placed, and can be clamped to either ridge or purlin columns.

20c
With Bolts
Complete

FLATS 12x20x3 inches
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Wrought Iron of sound second-hand quality with new threads and couplings. 14-foot lengths and up. Also pipe cut to sketch. We guarantee entire satisfaction or return money.

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Also full line of Bird Fountains and other garden requisites.

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The M. D. JONES CO.
71 Portland St., Boston, Mass.
Send for illustrated price list

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HOTBED SASH at 75c. each
Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.
Double Light Sash up to \$4.00.

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Write us for estimate.

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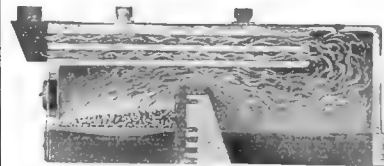
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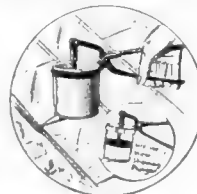
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John J. M. Farrell

"If vain our toil, we ought to blame the culture, not the soil,"—*Pope*.

You should lose no time in putting in a batch of sowing of winter flowering marguerites. They will root if kept shaded and moist for about three or four weeks. When rooted, pot them in dry good mixture and place in full sun. They can be grown under field or pot culture during the summer. When grown in the field they should be lifted by the first week in September and potted in very rich compost.

HORTICULTURE

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ment to crystalize the outward expression of filial affection all over the country into one particular day once a year is a good thing for the florist trade? Does he really believe that the florist will not suffer in the long run in the public esteem by reason of his suddenly developed solicitude that the people should not forget their maternal parents, coupled with appeals to purchase flowers for that purpose, let the mothers be dead or alive? That the celebration is a florist-made occasion is an established conviction with many people. Here is what one lady writes to a Boston daily paper.

"We mothers would greatly like to have one day in the whole year we could call our own and from which we could benefit, and not the florist. Does he not reap enough at Easter, weddings and funerals without laying another burden on us, that of providing our boys and girls with the carnations they do not like to appear without at Sunday School?"

Our Texas contemporary, *The Southern Florist*, is greatly exercised over the fact that "the Governor of Texas made a mistake in his proclamation and set the date for May 7th instead of the 14th, the proper date." The editor states that he had taken the matter up with Governor Ferguson and advised him that the 14th was the proper date to be observed and urges that every florist take it upon himself to see that his local papers give notice at once of the proper date so that there will be no confusion over the matter. What particular harm, we would ask, would come to the florist if his customers did get "confused" and make the grave mistake of buying flowers in honor of their mothers a week ahead of the day ordered by Miss Jarvis?

We are not yet ready to believe that the American people are deficient in mother love to the extent that they will need to look for inspiration in that sentiment to an advertisement or a pleading show card bearing a doggerel verse in the window of a man who has flowers to sell. Evidence of this was plain enough last year when, outside of Miss Jarvis' home and some other places, the observance was a frost in so far as the wearing of flowers on that day was a test. Let it be understood that we are expressing no particular objection to the establishment of a Mother's Day if the public feel so disposed, but we do see an indiscretion and a menace in the florist trade's campaigning to that end, and that was what we meant when we said "unwisely promoted." We delight to see the business with which we have been so closely identified for a lifetime advance in dignity and nobility as it grows in years and strength, and we always feel aggrieved at any development which impresses us as tending to its discredit and to add to the faults, real or fancied, of which the public have not been slow to accuse it at any time. That the movement under discussion does tend in that direction must be obvious to all. If the florist would persistently impress upon every man, woman and child the appropriateness of floral remembrances and gifts, with a view to develop the habit or the fashion of observing, each, his or her own mother's birthday by sending to her if living, or placing on her grave if gone, a bunch of her favorite flowers, then would the sale of flowers for mothers be distributed over 365 days of the year instead of being crowded into one day, and the florist would be immeasurably the gainer.

The proposition that the S. A. F. should officially interest itself in the collection of a substantial donation to be given annually for life to the ambitious lady who undertook to make the world celebrate her mother's birthday with a specified flower and then resented the market results of her effort, is nothing short of hysterical foolishness full of "boomerang" mischief for the florist. Think it over.

The editor of our esteemed New York "Unwisely contemporary wants to know why we have promoted" Mother's Day as an "unwisely promoted enterprise." We give our editorial catechist credit for possessing a larger amount of wisdom than his naive query would indicate. Our sentiments on this subject as it affects the flower trade have been fully and frankly set forth in previous years and we see no reason thus far to change our attitude as heretofore expressed. Does our friend think that this move-

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur C. Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Late Mulching

The houses that are to be run for a little while yet and will not be planted until about July, will produce much more and of a much better quality if they are kept mulched all the time. For these late mulches only well-decayed cow manure should be used, for the fresh manure would prove too much of a stimulant to the plants, making a lot of soft growth which would mildew at the very first cause and from this the disease would likely spread to the growth surrounding. When applying these late mulches do not put on too much manure all at once. It would take a lot of time to do this and a good deal of manure, a good portion of which would be wasted as the plants could not begin to take up all of it at once. It would be much better to apply a little more in two weeks or so. If good decayed manure is used it will not be necessary to use any soil with it, for the latter would only prove a nuisance when the soil has to be wheeled out. Do not have the plants too dry when the manure is applied, so that when it is watered it will not harm the roots of the plants. It should be watered as soon as it is applied, even though this may be late in the afternoon or almost evening. This watering will kill any heat that may be in the manure and will also wash down the ammonia which would otherwise escape and be a loss even though it did no damage to the leaves and flowers. Quick growers such as Shawyer, Ophelia, Sunburst, etc., will take hold of the manure at once and will show different color in two days; yes, even in one day if the plants have been a little starved. Where cow manure is not to be had or when no time can be spared to apply it there are many other fertilizers that can be given as substitutes. Bone meal, tankage, dried blood, sheep manure, hen manure, etc., all are highly concentrated fertilizers and must be applied with care, and for best results must be experimented with right on the place, for a set rule cannot be laid down for all places because of the difference in the soils. The best time we find to apply manure or other fertilizers is when a crop begins to come on and while the young shoots are only an inch long or even when the buds begin to break. As soon as the plants get in this stage they will take more water and the manure applied will help them along ever so much. Owing to the fact that we have to depend on foreign labor to do a large part of the work in the greenhouses, we use and recommend cow manure as much as is possible for we find from experience that chemicals applied by unskilled hands often do more harm than good, where with cow manure no one can go very far wrong. Even if it should be applied at the wrong time it is not very likely to ruin the plants, merely holding them back a bit, from which they soon recover and then grow better than ever. Do not use manures or fertilizers that are too rich in nitrogen as this forces the plants too much, causing soft growth, and trouble will result sooner or later. Pure

nitrate of soda should never be used on roses except in rare cases and then only under direction of someone who knows what he is doing.

The Side Ventilators

With the first few hot days comes the temptation to open the side ventilators to keep the houses cool. We never use the side vents except when the houses are being planted and for a while after that so as not to roast the young plants that have just been planted. We would advise every one to be very careful when using these side ventilators unless one has previous experience on the very place. It often happens that the buildings, trees, hills, etc., surrounding the greenhouses will be so situated as to cause the air currents to run so that no harm will result and the plants will be better off if the side vents are used. This, however, is an exception as we have found most places would be ruined by the use of side air in the spring of the year. It will also be necessary to be very careful with the ventilators in the wide houses, we finding it necessary to change the air from side to side as the wind changes, seldom if ever having the ventilators open full on both sides of the ridge. On real hot days we open the vents up full on one side and about one-third or so on the windward side, this depending on the velocity of the wind and its direction, and according to the "feel" of the air. Some day we may see things so that we shall say carry so much air when the thermometer is so much, the barometer so much, the humidity, etc., with the wind so blowing at such many miles an hour, but those highly scientific days have not come yet to commercial places, although we have no doubt that some greenhouses may be run that way here and there on a private place or college.

Yucca filamentosa

Our cover illustration this week well illustrates one of the handsomest flowering plants of the hardy garden. A native of North America, it has been used very extensively in European gardens for many years, and though there are numerous other species and varieties the typical *Y. filamentosa* still remains the hardiest and one of the most beautiful for this climate. The ever-green foliage forms a dense rosette, from the center of which rises in midsummer a stately branching spike, some five to six feet high, carrying numerous large deliciously perfumed creamy white flowers, and these produce a very striking appearance if groups are planted on the lawn or in some isolated position. Being impatient of removal, yuccas should not be disturbed after becoming established and all that is necessary to ensure success is a well drained loamy soil and a light covering of leaves in the winter. Our photograph was taken in the garden of George B. Dorr at Bar Harbor, Maine.

CLUBS AND SOCIETIES

NEW YORK FLORISTS' CLUB.

The monthly meeting of the New York Florists' Club was well attended, considering the busy season for the members from the suburbs especially. It was a pleasure a felicitation meeting over the success of the many activities of the club during the past few weeks. There were committee reports and commendatory speeches ad infinitum, with notes of thanks, etc., in connection with the National Flower Show, the International Flower Show, New York day, annual dinner, Brooklyn day and other festivities, and some preliminary discussion was had on the Flower Show for next year, in which Frank Traendly, Patrick O'Mara, C. H. Totty, A. L. Miller and other stalwarts took part, pro and con, some insisting on the ability of the club to run the show independently and others urging the advantages of co-operation with the Horticultural Society of New York. A vote was finally passed instructing the president to appoint a flower show committee to confer with and act in conjunction with the Horticultural Society.

W. H. Siebrecht addressed the meeting on the subject of bulb importation, dwelling particularly on the risk now assumed by the bulb forcers in importing and urging that the New York Florists' Club appoint a committee competent to pass upon the condition of bulbs when received from abroad so that lawsuits might be avoided.

A. J. Guttman then read his paper on the economic phases of the flower business, which was attentively listened to and elicited considerable discussion, in which Emil Schloss, Chas. H. Totty and others participated, a vote of thanks being tendered to Mr. Guttman.

FLORISTS' CLUB OF WASHINGTON.

A resolution to the effect "That it is the sense of the Florists' Club of Washington, D. C., that some suitable recognition should be made on behalf of Miss Anna Jarvis on account of the idea advanced and the amount of labor and effort expended by her in the promotion of Mother's Day, which has already proven very beneficial to all of the florists of the country, and the subject is one which should receive the attention of the S. A. F. and O. H., to the end that this object may be accomplished," was adopted by the club during a discussion following the reading of a letter from Robert Kift, of Philadelphia, appealing to the local club to join in raising a fund to give Miss Jarvis \$5,000 a year for life. A pink rambler rose seedling, produced by Harry Ley, elicited the commendation of the members. It has not as yet been named. It was decided to hold an outing at a place and time later to be decided upon.

Meetings Next Week

Monday, May 15.

Dutchess County Horticultural Society, Poughkeepsie, N. Y.
Horticultural Society of New York, American Museum of Natural History, New York City.
New Jersey Horticultural Society, Orange, N. J.

Tuesday, May 16.

Gardeners and Florists Club of Boston, Horticultural Hall, Boston, Mass.
Gardeners and Florists Club of Detroit, St. Georges Hotel, Detroit, Mich.
Minnesota State Florists Association, Minneapolis, Minn.
Pennsylvania Horticultural Society, Horticultural Hall, Philadelphia, Pa.

Wednesday, May 17.

Rhode Island Horticultural Society, Public Library, Providence, R. I.
Horticultural Society of New York, American Museum of Natural History, New York City.
Dutchess County Horticultural Society, Poughkeepsie, N. Y.

Thursday, May 18.

Essex County Florists' Club, Kreuger Auditorium, Newark, N. J.
New Orleans Horticultural Society, Association of Commerce Bldg., New Orleans, La.
North Westchester County Horticultural Society, Mt. Kisco, N. Y.
Tacoma Florists' Association, Macabee Hall, Tacoma, Wash.

Friday, May 19.

North Shore Horticultural Society, Manchester, Mass.

Saturday, May 20.

Dobbs Ferry Gardeners' Association, Dobbs Ferry, N. Y.

COMING EXHIBITIONS.

June 1-4, Pelham Bay, New York. Summer Show, International Garden Club.
June 9-10, San Francisco. American Sweet Pea Society, Palace Hotel.
June 28-29, Newport, R. I. Newport Garden Association and Newport Horticultural Society, on the grounds of the Garden Association.
August 11-12-13, Boston. American Gladiolus Society, Horticultural Hall.

NEW HAVEN COUNTY HORTICULTURAL SOCIETY.

This society has been quite active during the past few months and meetings have been well attended. Secretary W. E. McIntosh expects to issue the schedule for the September exhibition on 13th and 14th of September about June 1st. During the past week the Board of Education has sent out a bulletin notice to every school in the city regarding the prizes to be given by the New Haven Horticultural Society for plant exhibits by children.

For the best vase of twelve blooms of asters with long stems, 1st and 2nd prizes of \$10 and \$5, and five 3rd prizes of \$1 each are offered. For aster plants showing no less than six blooms, 1st \$5 and \$3, three 3rd prizes \$1 each. For the best essay on "How I Grow My Flowers," 1st prize \$5, 2nd \$2.

W. C. MCINTOSH

CLUB AND SOCIETY NOTES.

W. A. Rowe entertained the officers of the Florist Club of St. Louis on May 1 at his home in Kirkwood.

The schedule of the San Francisco Sweet Pea Exhibition to be held under the auspices of the American Sweet Pea Society in San Francisco, Cal., on Friday and Saturday, June 9 and 10, can be had on application to Frank G. Cuthbertson, secretary, 749 Front St., San Francisco.

The preliminary schedule for the seventh annual exhibition of the American Gladiolus Society to be held in Boston, Aug. 11th, 12th and 13th, has been distributed among the members. Copies may be had free by addressing H. Youell, secretary, 538 Cedar St., Syracuse, N. Y.

The County Growers' Association of St. Louis has elected the following officers: Wm. Winter, president; Tom Kirkwood, vice-president; Hugo Gross, treasurer; Joe Deutchman, secretary. The rest of the evening was taken up with a discussion of the Easter business and the closing of the wholesale houses on Easter Sunday. Installation of officers will take place June 7.

The American Peony Society, in co-operation with The Horticultural Society of New York, will hold an exhibition at the American Museum of Natural History on June 9 to 11 inclusive. Schedules may be had on application to the secretary of the American Peony Society, A. P. Saunders, Clinton, N. Y., or to the secretary of The Horticultural Society of New York, George V. Nash, Mansion, New York Botanical Garden, Bronx Park, New York City.

The American Institute of the City of New York and the American Dahlia Society will hold an exhibition of dahlias in the Engineering Society Building, 25-33 West 39th street, New York City, on September 26th to 28th, 1916. The Annual Chrysanthemum Exhibition of the American Institute will be held at the same place on November 8th-10th, 1916. For schedule of prizes address Wm. A. Eagleson, Secretary, Board of Managers, 324 West 23d street, New York, N. Y.

The monthly meeting of the Holyoke and Northampton Gardeners' and Florists' Club was held May 2 in Holyoke. Lucius E. Wilson, of Springfield, was a visitor and spoke entertainingly of the purposes of the Eastern States Agricultural Exposition, which is to open in West Springfield next October. Permanent buildings are now in course of erection, and the speaker suggested the possibility of arranging for a big flower show there at some future date. An exceptionally fine plant of Hydrangea Otaksa, by George Strugnell, was awarded a certificate of merit.

H. E. D.

An exhibition will be held in the Museum Building of the New York Bo-

THE MACNIFF HORTICULTURAL COMPANY

52, 54 and 56 Vesey Street, NEW YORK CITY

THE LARGEST HORTICULTURAL AUCTION ROOMS IN THE WORLD

Sales Every Tuesday and Friday at 11 o'clock A. M.

tanical Garden, Bronx Park, New York City, in co-operation with the garden on May 13 and 14. The exhibition will be open from 2 to 5 on the first day, and from 10 to 5 on the second day. The schedule provides for herbaceous flowers, bulb flowers, orchids, sweet peas, antirrhinums, pelargoniums, calceolarias, etc. The annual meeting of the society will be held in the lecture hall of the museum at 3.30 P. M. A lecture, illustrated with colored lantern slides, will be delivered at 4 P. M. in the lecture hall by Arthur Herrington, on "Iris for American Gardens."

The meeting of the Pittsburgh Florists' and Gardeners' Club on the evening of May 2 was in the Dutch Room at the Fort Pitt Hotel. A. A. Leach showed Narcissus Mrs. Langtry, King Alfred daffodils, Darwin tulips and Carnation Gorgeous, blooms of the latter measuring $4\frac{1}{2}$ inches. Jas. Moore showed Hydrangea Otaksa of a high order of merit. Herman Rapp, hydrangea and calceolarias. Carl Becherer, bellflowers. All were awarded cultural certificates and the commendation of the Club. Carl Becherer brought in a large collection of wild flowers, which were examined and named by O. E. Jennings, botanist, Carnegie Museum.

The illustrated talk on the Flora of the State of Washington was postponed to the June meeting. Coffee and sandwiches were served in honor of the speaker, Dr. O. E. Jennings, and his assistant.

H. P. JOSLIN, Secretary.

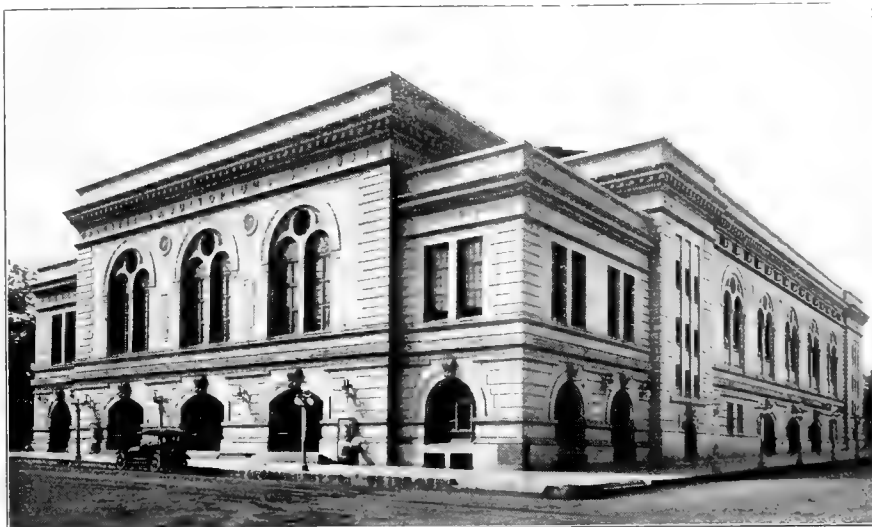
A GREAT CONVENTION HALL FOR CLEVELAND.

The citizens of Cleveland, Ohio, overwhelmingly endorsed the building of a convention hall and the issuing of bonds for \$2,500,000 for the construction of same. Plans roughly sketched by City Architect Betz show a structure 270 feet wide by 430 feet long. The stage will be 116 feet across by 50 feet deep—the largest in the country. The amphitheater will be 114 by 300 feet. Seats on the main floor will be removable, thus making 92,000 square feet of display space available. The seating capacity will be 15,762. When completed no public hall in the world will come within 4,000, so far as seating capacity is concerned, according to Betz.

While no decision has yet been reached the hall probably will be faced with granite, to match the federal building, courthouse and new city hall. Especial attention will be paid to acoustics, while not a post will break the stretch of main floor.

The site is being appraised now. The location is on the mall and the building will be one of Cleveland's famous group plan of public buildings. Every effort will be made to finish the building in time to hold the next national flower show in it, according to the promise of the Mayor.

HOUSTON CONVENTION NOTES.



CONVENTION HALL, HOUSTON, TEXAS

Three Blocks from the Rice Hotel. Five Blocks from the Convention Garden.

I wish to call the attention of the trade that it is not too late to receive exhibits for the Convention Garden. Our Garden is now an assured success. We have a great many substantial exhibits. The members of the trade should avail themselves of this opportunity of putting stock before the florist of the South. Remember that we will have a record breaking attendance from the South.

The southern florists are heavy buy-

ers. This is possibly the richest field for the wholesaler of any section of the country. Space rates are: Shrubs, evergreens, etc., 5c. per sq. ft. Blooming plants, 10c. per sq. ft. 150 to 250 sq. ft. will make an attractive medium exhibit.

Make shipment to C. L. Brock, Park Superintendent, Houston, Tex. Remember the florists of the South expect your co-operation.

R. C. KERR.

VISITORS' REGISTER.

St. Louis—Guy Reyburn of A. Henderson Co., Chicago.; Morris Le Vine, New York; Frank Farney, Phila.

Cincinnati—Milton Alexander, New York; Mr. Anderson, Dayton; Geo. Lampert, Xenia; J. E. Jones, Richmond, Ind.

Pittsburgh—Milton Alexander, New York; S. Gieger, Robert Craig Co., Phila.; Mr. Van Leeuwen and son, Sassenheim, Holland.

Philadelphia—Thomas R. Fries, Lancaster, Pa.; Mrs. B. B. Carpenter, Pittston, Pa.; Mrs. Albert M. Herr, Lancaster, Pa.; Antoine Leuthy, Roslindale, Mass.

Chicago—W. C. Kaber, La Porte, Ind.; T. B. Comandros, St. Paul, Minn.; Walter Mott, representing Benj. Hammond, Beacon, N. Y.; John Lepes, Cedar Rapids, Iowa; John P. Hauck, Cleveland, O.; John M. Parks, Cleveland, O.; Thomas Bookedis, Indianapolis, Ind.

Boston—F. R. Pierson, Tarrytown, N. Y.; J. R. Fotheringham, San Francisco, Cal.; A. E. Thatcher, Bar Harbor, Me.; F. C. Green, Providence, R. I.; W. A. Manda, South Orange, N. J.; Robert Kift, Philadelphia; John Canning, Ardsley, N. Y.; Wm. Anderson, So. Lancaster, Mass.; C. S. Strout

Biddeford, Me.; Eber Holmes, So. Orange, N. J.; William Shields, Pasadena, Cal.

Washington, D. C.—Linwood K. Johnson, with F. Mosmiller, Richmond, Va.; George W. Strange, New York; C. Ph. Frenks, Paran Deursen, Sassenheim, Holland; Joseph J. Goudy, repr. H. A. Dreer, Phila.; A. Schravendell, repr. Segers Bros., Lisse, Holland; G. Papendrecht, repr. Van Zonneveld Bros., Sassenheim, Holland; Charles Niemann, repr. C. F. Meyer, New York; Sidney H. Bayersdorfer, Phila.; I. Rosnosky, Phila.; L. G. P. Aallersberg, repr. Aug. Corndis, Meirelbeke, Belgium.

NEW CORPORATIONS.

Niles, Mich. — Niles Nursery Co., capital stock \$25,000.

Chicago, Ill. — Mangel & Co., capital stock, \$5,000. Incorporators, John Mangel, John Canger and Mrs. John Mangel.

New York, N. Y. — Henshaw Floral Co., Inc., florists, capital stock, \$10,000. Incorporators, W. R. Pierson, E. C. Worden and A. M. Henshaw

Cincinnati—Miss Edith F. Kyrk is the recipient of the sympathy of her friends over the loss of her mother, Mrs. F. D. Kyrk, who died last Friday.

BOSTON MAY EXHIBITION

The May exhibition for which the Massachusetts Horticultural Society had made very liberal preparations in its schedule of prizes did not come up to the standard contemplated, due primarily to the lack of season which forced out some of the most pretentious classes. On many of the items in the schedule there were no entries at all. Nevertheless the show is a good one well attended. We should have liked it better had art in arrangement and color balancing been given more consideration by the exhibitors but this phase of modern flower and plant exhibiting is a plant of slow growth and we must not ask too much all at once. At least two elegant examples of how to do it were given in the displays of F. R. Pierson of Tarrytown, N. Y., and Penn the Florist, of Boston. The former showed cut roses beautifully arranged in large vases with a view to tasteful effect, making a proud record in this respect and the latter made a shining example of what a retail florist may do in his splendid table of bronze floral baskets and vases in which Spanish irises, marguerites, snapdragons, etc., were combined with telling effect.

As on other recent exhibitions here the commercial growers were in the ascendancy on a number of classes formerly monopolized by the private experts. W. W. Edgar Co., captured the big prizes for French hydrangeas; A. M. Davenport gobbled the two \$100 prizes for azalea group and general plant group; Thomas Roland's showing of rambler roses which filled the entire stage in the lecture hall had no competitor and his group of Bougainvilleas was simply glorious; William Sim on sweet peas and on pansies, James Wheeler on yellow marguerites, for which a silver medal was awarded, Frank J. Dolansky on group of orchids—which won the gold medal,—the estate of A. Roper with the great cerise carnation named Albert Roper, which received a silver medal, Sam J. Goddard with his new crimson carnation Doris which got a certificate of merit and the splendid cut rose exhibits of Waban Rose Conservatories and McAlpine Bros.—all these as well as others not mentioned were very creditable to the commercial men.

One of the most interesting and valuable exhibits was that of Julius Henrlin of Blue Hill Nurseries, South Braintree, consisting of coniferous evergreens arranged in groups in the foyer. This collection, which was the most complete ever shown here numbered one hundred species and varieties of thuyas, junipers, pines, chamaecyparis, hemlocks, spruces, firs, taxus, etc., one fine specimen of each one known to be perfectly hardy in New England.

Naturally there was much in the displays as a whole of different character from what we are accustomed to see in shows at an earlier date. There were gloriosas gloxinias, calceolarias, fuchsias, streptocarpuses, verbenas, fancy caladiums and pelargoniums standard heliotropes, etc., and the list would have been still longer had the weather man kept up to time.

Bulbous flowers were not much in evidence. Calceolaria Stewartii from several exhibitors made a fine impression. The collection of dwarfed and contorted Japanese plants shown by Duncan Finlayson of Weld Garden was the most remarkable and valuable ever shown here. Imantophyllums, Rehmannia angulata Pink Perfection and a large group of hardy azaleas of the obtusa section were well shown by Charles Sander for the C. S. Sargent Estate and an especially fine group of rhododendrons from the Hunnewell Estate occupied the centre of the large hall. Mrs. J. L. Gardner, E. B. Dane, N. T. Kidder and other notable private places were well represented as the list of prize awards will show.

The formal opening of the exhibition took place on Wednesday evening under the direction of President Saltonstall and with an address by Gov. McCall in the presence of a large assemblage. The show remains open until Sunday night, May 14.

The interior of the large exhibition hall has been metamorphosed with a coat of gray paint which has not improved it any. The red brick walls have been a prolific cause for complaint for years but painted bricks are never pleasing to the eye and in this instance the effect of the long discussed improvement (?) is not particularly stunning.

List of Prizes and Gratuities—Plants and Flowers.

Antirrhinum: 1st, Mrs. C. G. Weld, gard. Duncan Finlayson. Azaleas, group to cover not more than 200 sq. ft.: 1st, A. M. Davenport. Four plants: 1st, A. M. Davenport; 2d, Miss Cornelia Warren. Calceolarias, large flowering: 1st, Mrs. J. L. Gardner; 2d, E. A. Clark, Stewartii. 1st, Winthrop Ames; 2d, Miss Cornelia Warren. Campanulas: 1st, Miss Cornelia Warren. Ericas: 1st, Miss Cornelia Warren. Tree Fern: 1st, Weld Garden, gard. D. Finlayson; 2d, A. M. Davenport. Fuchsias: 1st, S. J. Goddard. Heliotrope, standard: 1st, Faulkner Farm, gard. W. N. Craig; 2d, W. W. Edgar Co. Hydrangeas, group 150 sq. ft.: 1st, W. W. Edgar Co.; 2d, E. A. Clark, gard. Alex. McKay. Four plants: 1st, W. W. Edgar Co.; 2d, W. T. Walke. Marguerites: 1st, Faulkner Farm; 2d, F. W. Fletcher & Co. Orchids, 200 sq. ft.: 1st, F. J. Dolansky. Six plants, six varieties: 1st, J. T. Butterworth. Arenas: 1st, Weld Garden. Kentias: 1st, Weld Garden; 2d, Mrs. J. L. Gardner. Phoenix Roebellii: 1st, Weld Garden; 2d, Mrs. Lester Leland. Two specimens: 1st, Weld Garden. Show Pelargoniums, twelve plants: 1st, Mrs. C. G. Weld. Six plants: 1st, Mrs. C. G. Weld; 2d, Miss Cornelia Warren; specimen: 1st, Mrs. C. G. Weld; 2d, Miss Cornelia Warren. Zonale, specimen: 1st, S. J. Goddard. Rhododendrons, group, 300 sq. ft.: 1st, Walter Hunnewell; group, 300 sq. ft., hardy in Massachusetts: 1st, Walter Hunnewell; specimen: 1st, Walter Hunnewell. Roses, group, 200 sq. ft.: 1st, Thomas Roland. Six Hybrid Perpetual Roses: 1st, Miss Cornelia Warren; specimen: 1st, Miss Cornelia Warren. Rambler Roses, four varieties: 1st, Thomas Roland; specimen: 1st, Thomas Roland. Schizanthus: 1st, Mrs. C. G. Weld; 2d, Mrs. J. L. Gardner. Verbenas, in pots: 1st, Faulkner Farm. Streptocarpus: 1st, Mrs. J. L. Gardner; 2d, Mrs. C. G. Weld. Artistic display of flowering and foliage plants, not less than 200 sq. ft.: 1st, A. M. Davenport; 2d, W. W. Edgar Co. Stove or Greenhouse foliage plants, six plants: 1st, N. T. Kidder; flowering specimen: 1st, N. T. Kidder; standard Fuchsia: 2d, S. J. Goddard. Anthurium. Display of Dwarf Japanese plants: 1st, Weld Garden. Miniature Japanese garden: 1st, Kamoyama & Serada; 2d, Penn the Florist. Antirrhinum: 1st, Faulkner Farm; 2d, S. J. Goddard; vase, one or more varieties:

MAKE A BREAK FOR THE BEDDING PLANTS

They will "sell like hot cakes" for the next two weeks.

See the Ads of Pansies, Geraniums, Vincas, Lobelias and other good stock in this paper.

1st, Paul E. Richwagen; 2d, Mrs. C. G. Weld, "Weld Pink." Spanish Iris: 1st, Esty Bros. Marguerites, yellow: 1st, James Wheeler. Narcissuses: 1st, Mrs. C. S. Minot; 2d, Faulkner Farm. Pansies: 1st, William Sim; 2d, Charles T. Bensley & Co. Roses, display covering not more than 100 sq. ft.: 1st, F. R. Pierson Co. Hybrid Teas, fifty white: 1st, F. R. Pierson Co., white Killarney; 2d, McAlpine Bros.; fifty red: 1st, Waban Rose Conservatories, Hadley; 2d, McAlpine Bros., Crimson Queen; fifty pink: 1st, Waban Rose Conservatories, Mrs. Bayard Thayer; 2d, F. R. Pierson Co., Ophelia; fifty yellow: 1st, F. R. Pierson Co., Mrs. Aaron Ward; 2d, F. R. Pierson Co., Sunburst; twelve red (for private gardeners only): 1st, Mrs. C. G. Weld, Hoosier Beauty; twelve pink (for private gardeners only): 1st, Mrs. C. G. Weld, Mrs. Charles Russell; 2d, Mrs. C. G. Weld, Mrs. Moorfield Storey; twelve yellow (for private gardeners only): 1st, Mrs. C. G. Weld, Lady Hillingdon. Sweet Peas, display, 50 sq. ft.: William Sim. Tulips, twelve vases: 1st, Faulkner Farm; six vases: 1st, Weld Garden. Darwin Tulips (for private growers only): 1st, Weld Garden.

Gratuities: Mrs. C. G. Weld, gard. W. C. Rust, hanging baskets of Fuchsia; Esty Bros., Ixias and Ranunculus; Ernest B. Dane, vase of Eschscholtzia; Mrs. C. G. Weld, group of Schizanthus; Winthrop Ames, group of Calceolaria Stewartii; Thomas T. Watt, standard Hydrangea; Ernest B. Dane, Hydrangea Otakua; Faulkner Farm, Hydrangea Otakua; Mrs. J. L. Gardner, Hydrangea; E. A. Clark, Antilhe; Thomas Roland, Bougainvillea Sanderlana; Miss Cornelia Warren, Orchids; Ernest B. Dane, flowering and foliage plants; N. T. Kidder, flowering and foliage plants; Miss Cornelia Warren, flowering plants; Thomas T. Watt, flowering plants; Blue Hill Nurseries, Hardy Evergreens.

Gold Medal: Prof. C. S. Sargent, group of Azaleas.

Silver Medals: Albert Roper Estate, Carnation Albert Roper; James Wheeler, superior cultivation of Marguerite Etolle d'Or; Weld Garden, Japanese Dwarf Plants; A. W. Preston, gard. J. L. Smith, Brassavola Maronae (Cattleya gigas × Brassavola Digbyana); Blue Hill Nurseries, collection of Hardy Evergreens; Thomas Roland, Bougainvillea Sanderlana; Penn the Florist, arrangement of flowers for home use.

First Class Certificate of Merit: S. J. Goddard, Carnation Doris; Prof. C. S. Sargent, Cytopodium punctatum.

Honorable Mention: Walter Hunnewell, Laelia-Cattleya Waban; F. W. Fletcher Co., Delphinium Clevedon Beauty; Prof. C. S. Sargent, seedling Rhododendron (R. Smirnowii × Garden Var.); Peirce Bros., new Rose Tip Top; E. H. Wetterlow, new Geranium Mrs. Lester Leland; Prof. C. S. Sargent, group of Rehmannia angulata Pink Perfection.

Vote of Thanks: Walter Hunnewell, Acaela armata, group of large plants; Prof. C. S. Sargent, Wisterias and Imantophyllums; R. & J. Farquhar & Co., garden arrangement.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, J. M. Lupton, Mattituck, L. I., N. Y.; First Vice-President, Kirby B. White, Detroit, Mich.; Second Vice-President, F. W. Bolgiano, Washington, D. C.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.; Assistant Secretary, S. F. Willard, Jr., Cleveland, O. Chicago, Ill., June 20-23, next meeting place.

A Late Spring.

Vegetation is slow in developing this year, the trees in many parts of the country just showing the green of the first leaves, while pear, apple and peach trees are not yet in blossom, excepting a few favored localities. Notwithstanding the slow development, it seems to be continuous and possibly may prove a fortunate circumstance in the event of late frosts. Counter trade throughout the eastern and central states is at high water mark for the season, but nevertheless dealers generally feel that the cold, unfavorable weather has robbed them of a considerable volume of business which they cannot hope to recover this year.

Crop Conditions.

Our summary of crop conditions is rather incomplete at this time, for the reason that we are unable to secure satisfactory information from European sources. Moreover, there are no assurances that we shall be able to get such seed crops as are harvested in most of the countries of Europe. Nothing can be expected from the Central Powers because of the blockade, while such countries as Holland, Denmark and even France and England are declaring embargos on certain lines of seeds, making the entire question of European supply doubtful. If we are able to get anything more definite than the rumors which have reached us up to this time, we shall be very glad to give them to our readers.

Root Crops.

We believe it is generally understood by the trade that American growers of seeds have been making efforts to meet the expected and inevitable shortage in European supplies, particularly in the line of biennials. We understand that the root crops have carried over in fairly satisfactory condition in the East, but they are going into the ground rather late, which is something of a handicap. The principal biennials grown in the East are beets, carrots and turnips, the latter rather limited as to quantity. Very little onion seed is now grown in the East as it has been found unprofitable, due largely to the annual blighting of the crop.

Pea Shortage Probable.

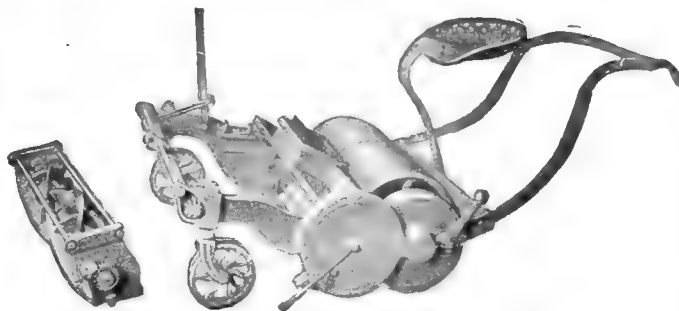
Peas are going into the ground late, both those for canners' use and for seed purposes. In many sections seeding of peas is from three to five weeks late, and although most of the canners have decided to materially reduce their acreage their first plantings have been so late that they will not be able to get out their entire acreage excepting by planting so closely together that the various plantings are

liable to mature more or less at one time, which would overwhelm the canner and prevent him from packing the peas and produce good quality. This is likely to have a very marked influence on the general pack the coming season and is quite liable to result in more or less of a shortage, which will probably bring about a marked advance in prices, but which may in the end prove a blessing to the canners. Peas planted for seed purposes in the East, principally in Michigan and Wisconsin, will be more or less under the same handicap and some experienced growers are predicting a short crop of seed. This of course is anticipating events but we believe that both experienced canners and seed growers agree that a late

planting is never a promise of a good crop.

California Seed Crops.

With reference to California seed crops, we are informed that with two or three notable exceptions conditions are fairly good. Rain is needed for most crops yet it is feared that the result would be more or less disastrous to the onion seed crop and to the small remnant left of salsify. It seems to be the opinion of the California growers that without rain onion seed will probably prove a fair crop but other crops would benefit. Summarizing the situation from what we have been able to learn, we believe that seed crops in general will not suffer materially for want of rain,



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COLDWELL Horse Mowers work well and wear well.

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while one or two of the most important are likely to be seriously damaged.

Canners' Bargain.

One of the conditions under which the Seed Trade Association sanctioned the writing of contracts with the Wisconsin canners, omitting the disclaimer was that an extra charge should be made in case of insurance. Without discussing the effect of this on the value of the canner, we have recently heard that the extra price has not been charged in many instances where contracts were written without the disclaimer and we are not surprised. We predicted this would be the result.

American Seed for Ontario.

GEORGE L. A. S. L. L. of Kingston, Ont., April 29th.

Seeds are exported from Prince Edward County, in the Kingston consular district, to all parts of the world. This year, however, grass and all other seeds are being imported from the United States, and importers state that the demand is so great that they experienced difficulty in filling orders. The shortage of seeds is attributable principally to unfavorable weather conditions, lack of labor, and less acreage grown.

More seeds will be planted this spring than ever before; vegetables of all kinds are to be raised. The canneries in this district have disposed of last year's surplus stock and with orders now on hand for the coming season, they will be kept very busy. The canning industry of Prince Edward County is the principal and most important of its kind in the Province of Ontario.

Teneriffe-Bermuda Onion Seed Crop.

F. C. Varela states that owing to the lack of winter rains in the Canary Islands, a considerable part of the onion seed crop has been irretrievably lost, and what remains of it is in a rather precarious state.

On the other hand, the fact that the yield of Bermuda onions in Texas has been smaller than expected and the difficulties in transporting the Egyptian onions will have the effect of maintaining satisfactory prices in northern and eastern markets of the Union and, as a consequence, the demand for Teneriffe seed will be brisker than usual. With the little crop this year they will not be able to face half the demand from different countries.

"Once more the Texas Bermuda onion crop has baffled the expectations of the growers. Damage has been done to the extent of 40 per cent and, as usual the poor 'thrips' and the much abused 'weather conditions' have got all the blame. Next to this, the blame for the ultimate bad result of the sales, because of the onions arriving at distant points in a more or less 'wasty condition,' will be eventually shifted to the shoulders of the railroad company or the steamship company or to the negligence of the broker who sold the onions. But—the fact is, that a very considerable quantity of the commercial seed, bought and distributed by some American dealers, is mainly responsible for the damage continually observed in the last four or five years.

"Commercial seed, synonymous with degenerated seed, although cheap to

American dealers, comes out terribly expensive to the onion growers. In view of the considerable loss it brings about. Such seed cannot produce good keeping onions; hence, the great numbers of cars which arrive with onions in a wasty condition. American seedsmen and dealers have fostered in Teneriffe such a keen competition—throat cutting, I would say amongst the dealers and so-called growers here (from bankers and provision merchants down to farmers and tailors), that the real victim is the onion grower in the United States.

Important to Importers of Seed and Nursery Stock.

Lord Robert Cecil, Minister of War Trade of Great Britain, on May 6th, made the important announcement of certain orders in council in the nature of concessions to neutral trade, among which is the following order.

"Business documents from shippers to and from neutral countries will be placed in a separate bag, which will receive immediate examination, and will proceed on the ship on which it was originally mailed. No guarantee will be given that this bag will not be opened, but shippers will be assured that there will be no delay."

This is a confirmation of the agreement made at a conference between Sir Richard Crawford, of the British Embassy at Washington, D. C., with Curtis Nye Smith, the counsel for the seed and nursery trade associations on March 30th, 1916, in order to overcome the very serious difficulties arising from the action of the British Censor in holding up shipping documents of the seed and nursery stock shipped from neutral countries to American importers.

One Week's Imports.

Imports at the port of New York of horticultural material, for the week ending April 28th, were recorded as follows:

Plants—Mexico, \$21.
Red clover seed—France, \$40,324; Italy, \$116,046.
Grass seed—Denmark, \$3,110; Sweden, \$1,206; England, \$19,994.
Other seeds—France, \$15,917; Netherlands, \$745; Spain, \$483; England, \$10,416; Ireland, \$111; Argentine, \$2,937; Hongkong, \$232; Japan, \$4; Morocco, \$4,096; Spanish Africa, \$2,455.
Nitrate of potash—British Indies, \$74,458.
Nitrate of soda—Chile, \$136,492.
Sulphate of potash—Peru, \$5,227.
Other fertilizers—England, \$270.

CATALOGUES RECEIVED.

Bessie Boston Dahlia Farm, San Mateo, Cal.—"Grand Prix Dahlias." A list of desirable dahlias of the various classes.

Charles E. Parker, Terre Haute, Ind.—Bulb Catalogue for 1916. Devoted to gladioli and dahlias, of which a good selection of named varieties are offered.

PUBLICATIONS RECEIVED.

Twenty-fifth Annual Report of the Park Commissioners of the City of Haverhill, Mass. This is also the 25th year of the incumbency of Henry Frost as superintendent of the parks and playgrounds at Haverhill.

The Twelfth Annual Report of the Massachusetts State Forester, by Frank W. Rane. An illustrated volume of 130 pages, showing an immense amount of work has been accomplished during the past year in reforestation, fire protection, moth suppression, meetings, etc., in all sections of the state. A chart of the newly acquired Mt. Holyoke public reservation is included.

Thirty-Third Annual Report of the Board of Park Commissioners of Minneapolis. An elaborate publication, on heavy paper and profusely illustrated with plates, diagrams and maps. Full of detail concerning every item of construction, maintenance and management of an extensive Metropolitan Park system. Thoroughly done as is characteristic of Superintendent Theodore Wirth.

Farmers' Bulletin, No. 721, of the U. S. Department of Agriculture is devoted to a consideration of the Rose-chaffer, one of the most intractable pests that infest the garden and vineyard. The bulletin is by F. H. Chittenden and A. L. Quaintance. Unfortunately no sovereign remedy against this destructive insect has yet been discovered but the bulletin gives information tending to a means of partial suppression and is worthy of a wide distribution and perusal.

The National Nurseryman for May, 1916, makes a feature of a list of Our Fifty Worst Weeds. This is presented in alphabetical tabulated form giving common name, botanical name, duration of life, color, size and arrangement of flowers, sections where injurious, methods of seed distribution, vegetative propagation of the perennials, place of growth and products injured. This is a very timely subject and in the form as presented in The National Nurserymen should prove a valuable aid to the gardener.

Some Common Plant Families. A Botanical Text Book by Willard N. Clute. Published by Willard N. Clute & Co., Joliet, Ill.—Mr. Clute is widely known as an author on botanical subjects. In this pamphlet he has put into easily comprehensible terms much popular instruction tending to help in plant and flower identification which will prove of value to the novice who with a little practice and experience will be able to work out and establish identities from the group character facts here presented.

Pittsburgh, Pa.—All the public parks, likewise the grounds and lawns in the East End and Sewickly Heights districts are at present masses of bloom.

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue
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All First Size Bulbs

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Cincinnati, O. E. A. FORTER, 128 West 4th street

Swampscott, Mass. H. C. BLANEY Humphrey street

Bridgeport, Ct. — James Horan & Co., Fairfield avenue.

Brockton, Mass. — Belmont Flower Shop, Belmont street

Medford, Mass. — Medford Flower & Gift Shop, 42 Salem street.

Cleveland, O. — Edward A. FETTERS, removing to 1635 Woodward avenue

Scranton, Pa. — A. L. BESANCON & Co., Adams avenue and Spruce street.

Portland, Ore. — Oscar Johnson, 768 Gleason street. Martin & Forbes, removing June 1st to Washington and Park streets, Morgan bldg.

BUSINESS TROUBLES.

Buffalo, N. Y. — Fred A. Katoll, florist, 10 Summer street, assets, \$465; liabilities, \$1,972.03.

Cleveland, O. — James Eadie Co., florists, voluntary petition in bankruptcy; assets, \$3,857.21; liabilities, \$6,249.27.

NEWS NOTES.

Portland, Me. — Dennett, the florist, has just purchased the Portland Flower Store, directly across the street. The new establishment will be conducted in addition to the old one and will be under the management of Miss Helen Nixon.

Asheville, N. C. — Allison's Flower Shop, in Asheville, N. C., has purchased the West Asheville greenhouses and will make a number of repairs and additions to them. Shelby Griffith, who has had a wide experience in the florist business will come from Pittsburgh, Pa., to assume charge of this new enterprise.

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IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE

125,000 Sq. Ft. of Glass
WORCESTER, MASS.

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl
St.
Albany, N. Y.—The Rosery, 23 Steuben
St.
Albany, N. Y.—William C. Gloeckner, 97
State St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont
St.
Boston—Zinn the Florist, 4 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main
St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid
Ave.
Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th
St.
Cleveland, O.—The Smith & Feters Co.,
735 Euclid Ave.
Denver, Col.—Park Floral Co., 1643
Broadway.
Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.
Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.
New London, Conn.—Reuter's.
New York—David Clarke's Sons, 2139-
2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St.
and Madison Ave.
New York—Max Schling, 22 W. 50th St.
New York—G. E. M. Stumpp, 761 Fifth
Ave.
New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.
New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.
Rochester, N. Y.—Salter Bros., 38 Main
St., West.
San Francisco—Pellicano, Rossi & Co., 123
Kearny St.
St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.
Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.
Washington, D. C.—Gude Bros., 1214 F
St.
Washington, D. C.—F. H. Kramer, 915
F St., N. W.
Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.
Westerly, R. I.—Reuter's.
Worcester, Mass.—H. F. A. Lange.
Worcester, Mass.—Randall's Flower Shop,
3 Pleasant St.

Penn The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 Tremont St., BOSTON

REUTER'S Members Florists
Telegraph
Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence

ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

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NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES
Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.



NEWS ITEMS FROM EVERYWHERE

BOSTON.

M. A. Patten is home after his southern trip, much improved in health and looking first rate.

J. Newman of Tremont street has recently been appointed Boston representative of the National Florists' Corporation.

George Cartwright, who has been confined to the hospital for over a week is now back in the flower market looking as well as ever.

Harry Quint has a factory on Bromfield street, where a half-score of men are turning out Memorial Day wreaths. Sam Liebman is in charge and reports an output of 500 a day.

During the recent "Clean-Up" campaign in Malden, 500 new trees were set out by the school children. In Walpole, 1,000 trees were planted. Tree practice is one that should be encouraged.

Suburban retailers are beginning to appreciate the value of first-class delivery service and many are installing automobiles. Fred Kaulback of Malden and C. B. Jones of Woburn are among those who have recently added delivery trucks.

"Gazing sticks" are becoming popular. Thomas F. Galvin Co. are making a specialty of them. A quicksilver-lined glass ball is mounted on the end of a sort of cane. The ball reflects images of all surrounding objects, and if thrust in the centre of a garden plot will reflect the entire scene.

Chairman John Dillon of the Park and Recreation Department announces that next Sunday will be tulip Sunday in Boston. He is placing high hopes on this year's display. May 21 was the day originally set for the show. Boston's tulip display always attracts universal attention.

St. Louis.—J. J. Beneke, who is on the retired list for the present, spent a very pleasant week visiting friends in the trade at Chicago. Mr. Beneke has nothing to report as to his future plans for the present.

Adolph Steidle, who for the past two years was with the Vandervoort's floral department, gave up his position May 6 and has taken charge of his father's greenhouse plant at Olivette, Mo.

FLOWERS BY TELEGRAPH

SAN FRANCISCO
CALIFORNIA

Pelicano, Rossi & Co.
128 KEARNY ST.

F. R. PIERSON CO.

FLORISTS AND
PLANTSMEN

TARRYTOWN-ON-HUDSON, - N. Y.

PHILADELPHIA.

HORTICULTURE said a fine thing about William E. Doyle recently in remarking that in his early days he became famous by his artistic ability and in making a better show with poorer materials than any other Boston florist of his day and generation. That is another way of saying that he was a genius. One of the best definitions of a genius to my mind is that given by Thomas Carlyle. "A genius," said he, "is a man who can make the commonplace interesting." The more you think of it the better that fits from Shakespeare to Doyle.

And in that connection we have to record the passing of the Battles store at 108 South 12th street to make room for a new bank building. Out of very little Harry Battles made out of this modest and cramped location by sheer genius and personality the most unique flower store—an artistic triumph—ever new and ever interesting. Every inch of space had its use. Yet nothing was ever overdone. The story was told strongly and yet there never was a shout in it. Battles has the gift of making you "sit up and take notice" without shouting. While "Terra Firma" on her axis remains to turn, the fragrant memory of 108 will ever remain with us. The new location is now two doors below, and we may look for things to happen.

Alfred M. Campbell, one of our wide-awake growers and also a commission man of distinction wishes me to convey to the editor of HORTICULTURE his appreciation of the editorials for which the paper has been noted from its start a dozen years ago; and in especial, his delight with two of recent date, one on the Spanish iris, the other on roses Hadley and Ophelia. We wanted to know why he didn't do his own bouquet throwing, as it is well known that there is a standing feud between ourselves and the blup pencil. But Alfred was equal to the occasion and countered with, "Well, you see, you can say it so much nicer than I could." After a personal bouquet like that, the standing grouch had to take a back seat for the time being, which explains why this paragraph; and if it is not a peerless monograph to our magnanimity we'd like to know what you'd call it!

WARETOWN, N. J.

The Tamarix hedge seems to have suffered more than anything else during the winter at Waretown. The commodore reports everything else normal and blooming. Mr. and Mrs. John Westcott enjoyed a few days at the farmhouse, May 4 to 8. The McTavish is still on the rocks. The next move will be garage charges. That ought to start some movement by the New York owners. Say a dollar an hour for twelve months! How much is that? We can't stand having our scenery spoiled by a derelict or a load of bricks. G. C. W.

CHICAGO.

George Perdikas has opened a third retail store at 23 W. Jackson Blvd.

J. J. Mohrle, who bought the Schoelle store at 2052 W. Chicago avenue two years ago, has now sold out to A. Behrens.

M. J. Rosbergen, of Boskoop, Holland, spent sixteen days on the water enroute to the United States. The bulb salesmen come by the way of the north of Scotland this year.

The Alpha Floral Co. will have a special sale of roses for the week end. Louis Eisner will leave The Alpha about June 1st to be associated with the Covent Garden Corporation.

J. Mangel has the large silver cup won for artistic bride's bouquet as the center window setting this week, accompanied by specimen bouquets. Wedding orders are starting in early at this store.

Rudolph Mohr, of A. Lange's, has a badly lacerated hand as the result of his losing control of the elevator which runs to the upper work room. The ends of two fingers were taken off. A. MacKenzie, who has charge of the plant section here, says that it has been an exceptionally good season.

The largest wedding of the season took place last week. The church was filled with plants and cut flowers. Six dozen large hydrangeas were banked at the sides of the front and the center front filled with lily plants. The pews had bunches of lilies fastened to them and these rows terminated in seven-foot vases filled with lilies. At the house the living rooms were bowers of Ophelia roses, a lattice work 22 feet wide forming a back ground for the bridal party. The dining room was done with Tausendschoen roses of which one hundred large plants were used and thousands of cut roses were about the rooms. C. A. Samuelson had the order and Ed. Enders, who has been with him 28 years, executed it.

WASHINGTON, D. C.

Congressman Slayden has introduced a bill into the House of Representatives providing for the removal of

HIGH GRADE PLANTS
For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.

ROBERT DYSART
CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED.
40 STATE ST. BOSTON
Telephone Main 55.

MEMORIAL DAY

Get your supplies NOW and have them on hand to show to your customers

METALLIC WREATHS, ANCHORS, CROSSES, beautifully decorated with flowers on white or green foliage. Our designs are wonderful in their true-to-nature perfection.

MAGNOLIA WREATHS. CYCAS LEAVES and WREATHS. FOR MOTHER'S, MAY 14th, WHITE CARNATIONS, very fine. \$1.80 per 100; large size, \$2.00 per 100

Baskets in Wonderful Variety of Shape and Tint, Brazilian Willow Baskets, Porto Rican Mats, Silk Fibre Ribbon, Japanese Novelties in Decorative Material, School Graduation and Commencement Specialties, etc., etc.

WAX FLOWERS, good to work in Magnolia Wreaths, Sweet Peas, Carnations and Roses.

CREPE FLOWERS of every variety—Lilies, Orchids, Mums, Dahlias, Carnations, Roses and crepe Cape Flowers.

Send for Silent Salesman's Supplement

THE FLORISTS' SUPPLY HOUSE OF AMERICA

H. BAYERSDORFER & CO., 1129 Arch Street, PHILADELPHIA, PA.

the Botanic Garden from its present site at the foot of the Capitol to Rock Creek Park, where it would be out of the reach of the thousands of ordinary people of the city who are not possessors of automobiles, but where it would be a distinct advantage to owners of certain real estate, and to transfer its control to the Department of Agriculture. The measure has been referred to the Committee on the Library.

The U. S. Court of Customs Appeals, in the case of H. Bayersdorfer & Co., has reversed the decision of the Board of General Appraisers which had upheld the assessment of duty at the rate of 60 per cent. ad valorem on dried and dyed immortelles and wreaths of immortelles having a straw frame, under paragraph 347 of the tariff act as ornamental flowers and as wreaths wholly or in chief value thereof. The importers claimed them dutiable under paragraph 210 as cut flowers, preserved or fresh, either directly or by similtude, or as unenumerated articles under paragraph 385, the court upholding them as to the former paragraph.

PERSONAL.

Mr. and Mrs. David Francis Roy of Marion, Mass., have announced the engagement of their daughter, Ethel Violet, to Mr. Roland Starr Dominie of Lynn.

Douglas C. Eccleston, recently in charge of Mr. Mackenzie's greenhouses in Woodstock, Vt., has taken a position in Thomas Young's orchid establishment in Bound Brook, N. J. Ernest Morris succeeds Mr. Eccleston at the Mackenzie place.

Obituary

Eric Guy Sutton.

We learn with deep regret of the death in action of Lieutenant Eric Guy Sutton, second son of Mr. Leonard Sutton, Mayor of Reading, Eng. The late Lieut. Sutton was educated at Rugby, and on leaving school spent a year in France, and then proceeded to a tour in America, preparatory to entering the firm of Messrs. Sutton & Sons, at Reading. He returned home on the outbreak of war, joined H. M. forces, and was gazetted to the Royal Sussex Regiment in September, 1914. In the spring of last year he went to the front, and at once showed such ability that he gained his lieutenantcy in the following June, as recorded in these pages. Lieut. Sutton received the Military Cross for conspicuous gallantry on the night of September 12, 1915, near Armentieres. Together with another officer he entered a mine, which was in a highly dangerous state, owing to the gas fumes following an explosion, in order to rescue a man who has been overcome. Their prompt action undoubtedly saved the man's life. He received the decoration at the hands of the King at Buckingham Palace on February 23 of this year. Lieut. Sutton returned to the front in May, and had been almost continuously in the fighting line. Three of Mr. Leonard Sutton's sons are serving, and two of them are at the front. No words can express the sorrow of those who knew Lieut. Sutton. Young and full of life, alert, and possessed of a rare charm, the war showed yet another side of his character. His natural gaiety proved itself to be, as oftentimes it is, the manifestation of

a brave heart "that looks on tempests and is never shaken." His ready courage made high duties easy and empowered him to do noble things with quiet confidence and strength. All that can be said in the vain desire to solace the sorrow of his friends and to help his father and his relations to support their grief, is that he did his duty like an Englishman, and he died for his country. Grief for his death and poignant regret at the shattering of such promise must always remain; but so also will remain the shining memory of a youth who was equal to the sternest call that fate may make of man; who, though his days were brief, won imperishable honor.—*The Gardeners' Chronicle*, April 22.

William G. Rowand.

Wm. G. Rowand, for many years in charge of the warehouse of Henry A. Dreer, Philadelphia, Pa., died on Wednesday morning, May 10, at his home Haddonfield, N. J. He had been a member of the Dreer force for thirty years, and by his faithful and loyal service had gained the confidence of his employers and also the high regard of his fellow workers. Funeral services at his home on Sunday afternoon, May 14.

Walter Angus.

Walter Angus, gardener on the Lyman Estate, Waltham, Mass., for a number of years, died on Monday, May 1, after a brief illness. Mr. Angus is survived by three daughters.

Herman N. Bradshaw.

Herman N. Bradshaw, a veteran florist in business for the past forty years, died on May 6 at his place near Ossining, N. Y.

A Florist's
Necessity

HART'S HANDY HANDLE

Fits securely on any standard pot and by the use of a little chignon or ribbon gives you a basket effect at a very small additional expense, increasing the price of your plants 100 per cent.

1	12 inches high, \$2.50 per doz.	4	24 inches high, \$5.00 per doz.
2	15 " " 3.50 " "	5	30 " " 6.50 " "
3	18 " " 4.00 " "	6	36 " " 9.00 " "

At Your Dealer's or Direct.

GEO. B. HART, Manufacturer, 24 to 30 Stone Street, Rochester, N. Y.

Our Prices Will Interest
YOU!

When in need of
BEAUTIES

Send your orders to
THE LEO NIESSEN CO.

Wholesale Florists
1201-05 Race Street, PHILADELPHIA, PA.

EDWARD REID
WHOLESALE FLORIST
1619 - 21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER
122 West 25th St., New York
Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists
RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER
EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

Telephone 3400 Madison Square

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WHOLESALE

Plantsmen and Florists
37 and 39 West 28th St., NEW YORK



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mention **HORTICULTURE**.

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Horticulture's Advertisers
FIRST

Before Looking Elsewhere

Tell Them You Did So And
They'll Reciprocate

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

226 DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON May 11		ST. LOUIS May 8		PHILA. May 8	
Roses						
Am. Beauty, Special	20.00	to 25.00	25.00	to 35.00	15.00	to 20.00
" " Fancy and Extra	15.00	to 20.00	15.00	to 20.00	8.00	to 12.50
" " No. 1	4.00	to 8.00	4.00	to 8.00	2.00	to 6.00
Russell, Hadley	4.00	to 12.00	8.00	to 15.00	9.00	to 15.00
Killarney, Richmond, Hillingdon, Ward, Extra	3.00	to 6.00	8.00	to 10.00	6.00	to 8.00
" " Ordinary	1.00	to 2.00	4.00	to 6.00	2.00	to 4.00
Arenburg, Radiance, Taft, Key, Extra	4.00	to 6.00	4.00	to 6.00	6.00	to 8.00
" " Ordinary	9.00	to 3.00	4.00	to 6.00	8.00	to 4.00
Ophelia, Mock, Sunburst, Extra	4.00	to 8.00	8.00	to 10.00	5.00	to 10.00
" " Ordinary	2.00	to 4.00	4.00	to 6.00	3.00	to 4.00
Carnations, Fancy	2.00	to 3.00	4.00	to 5.00	9.00	to 3.00
" " Ordinary	1.00	to 1.50	1.00	to 3.00	1.00	to 2.00
Cattleyas	40.00	to 50.00	50.00	to 75.00	50.00	to 60.00
Dendrobium formosum	1.00	to 35.00	1.00	to 35.00	1.00	to 35.00
Lilies, Longiflorum	6.00	to 8.00	4.00	to 6.00	6.00	to 8.00
" " Rubrum	1.00	to 2.00	4.00	to 6.00	1.00	to 2.00
Callas	7.00	to 8.00	4.00	to 6.00	6.00	to 8.00
Lily of the Valley	3.00	to 5.00	3.00	to 4.00	9.00	to 5.00
Daisies	1.00	to 2.00	2.00	to 3.00	.50	to 1.00
Violets	.40	to .50	1.00	to 1.00	1.00	to 1.00
Mignonette	2.00	to 4.00	3.00	to 4.00	1.00	to 4.00
Snopdragon	4.00	to 8.00	3.00	to 5.00	1.50	to 10.00
Daffodils	.25	to 1.00	3.00	to 4.00	1.00	to 2.00
Gladioli	6.00	to 10.00	6.00	to 8.00	3.00	to 6.00
Tulips	2.00	to 3.00	3.00	to 5.00	1.00	to 2.00
Hyacinths	1.00	to 2.00	3.00	to 4.00	1.00	to 2.00
Freesia	1.00	to 2.00	3.00	to 4.00	1.00	to 2.00
Calendulas	1.00	to 2.00	2.00	to 3.00	1.00	to 3.00
Liac (per bunch)	.25	to .50	.25	to .75	.15	to .25
Sweet Peas	.25	to .75	.25	to 1.00	.40	to 1.00
Gardenias	12.00	to 20.00	1.00	to 1.00	3.00	to 15.00
Adiantum	1.00	to 1.00	1.00	to 1.25	1.00	to 1.00
Smilax	12.00	to 16.00	12.00	to 15.00	20.00	to 30.00
Asparagus Plumosus, & Spreng. (per bunch)	25.00	to 35.00	30.00	to 30.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELLICOTT ST. - - - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

Flower Market Reports

BOSTON Gloom and dull trading have settled on the Boston market and to all indications they are here for an extended visit. It is fortunate that growers are not sending in large quantities of stock or a complete tie-up would result, for the market is crowded and dragging heavily even under present conditions. Carnations, always indicative of the market's tendencies are going poorly. Normal prices are being asked nevertheless. Roses are doing the best of anything, but short Beauties established a new minimum price record by selling for a cent a piece. Daffodils are sluggish, and irises and snapdragons may be placed in the same category. The one redeeming feature is the scarcity of some stock. Cattleyas especially are barely obtainable. Lilies stand motionless on the shelves with callas doing likewise, and when the receipts for the week are summed up they will be far from encouraging to the majority of salesmen. It is the poorest week experienced thus far for the year.

Receipts have been heavy on all lines. Roses are overplentiful. Only the best have found an outlet and then high prices were out of the question. It is a matter of "how much will you give?" The bargain sign was not only seen at the end of the week but daily. Up to Thursday last the supply of carnations was also heavy, but on Saturday they cleaned up quite satisfactorily. Lilies are flooding the market, which should have been in for Easter, and indoor bulbous stock has been overplentiful. There is considerable outdoor material now. Beauties are in heavy supply, with sale only light. Sweet peas are in abundance. Prices generally have been discouraging. On Monday, May 8, the market opened brisk and trade throughout the day was good. There is considerable speculative buying being done and it looks like a good windup.

Generally cool weather **CHICAGO** has kept stock in prime condition so far and trade has been all that could be desired. Some days stock moves faster than others but there is no quiet time and practically everything cleans up at good prices. Cattleyas and gardenias continue scarce. Of roses there are plenty of all kinds. Mrs. Russell is especially good and abundant now. Carnations are advancing in price as Mother's Day draws near and there are plenty of opinions expressed regarding the effect upon that day, but no one seems to have solved the problem. Wholesalers are turning as many of the carnation orders as possible into other channels and roses will be substituted. Snapdragons were never better, calendulas are as much in favor as ever and iris is selling well. Sweet peas are coming fast. Smilax is scarce. Other green is in sufficient quantity. Outdoor tulips, daffodils, etc., are now coming. All the retail florists are showing appropriate boxes for Mother's Day offerings and the windows are filled with most attractive color combinations. "Russian Sta-



Mrs. Charles Russell

As the weather gets warmer the quality of this wonderful rose really improves, and splendid stock it is.

	Per 100
Special	\$15.00
Fancy	12.00
Extra	10.00
First	8.00
Second	6.00

S. S. PENNOCK-MILKIN CO.

The Wholesale Florists of Philadelphia

PHILADELPHIA
1608-1620 Ludlow St.
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117 W. 28th St.
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Franklin & St. Paul Sts.
WASHINGTON
1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI May 8	CHICAGO May 1	BUFFALO May 8	PITTSBURG May 8
Roses				
Am. Beauty, Special	35.00 to 40.00	30.00 to 40.00	20.00 to 25.00	20.00 to 25.00
" " Fancy and Extra	25.00 to 30.00	20.00 to 30.00	15.00 to 20.00	10.00 to 15.00
" " No. 1	15.00 to 20.00	10.00 to 15.00	8.00 to 10.00	6.00 to 8.00
Russell, Hadley	8.00 to 15.00	4.00 to 25.00	6.00 to 8.00	4.00 to 12.00
Killarney, Richm'd, Hill'don, Ward	8.00 to 12.00	8.00 to 12.00	4.00 to 6.00	6.00 to 12.00
" " "Ord.	4.00 to 6.00	3.00 to 6.00	3.00 to 4.00	..... to 4.00
Arenburg, Radiance, Taft, Key, Ex.	8.00 to 12.00	8.00 to 12.00	6.00 to 8.00	6.00 to 12.00
" " "Ord.	4.00 to 6.00	3.00 to 6.00	3.00 to 4.00	..... to 4.00
Ophelia, Mock, Sunburst, Extra	8.00 to 12.00	8.00 to 15.00	6.00 to 8.00	6.00 to 12.00
" " "Ordinary	4.00 to 6.00	3.00 to 5.00	3.00 to 6.00	..... to 4.00
Carnations, Fancy	4.00 to 5.00	3.00 to 5.00	2.00 to 3.00	4.00 to 6.00
" " Ordinary	..... to 3.00	2.00 to 3.00	1.00 to 1.50	2.00 to 3.00
Cattleyas	60.00 to 75.00	50.00 to 75.00	40.00 to 50.00	60.00 to 75.00
Dendrobium formosum	..... to .....	..... to .....	..... to .....	..... to
Lilies, Longiflorum	8.00 to 10.00	8.00 to 12.00	6.00 to 10.00	6.00 to 8.00
" " Rubrum	..... to .....	..... to	3.00 to 5.00	..... to
Callas	6.00 to 8.00	6.00 to 12.00	6.00 to 10.00	8.00 to 10.00
Lily of the Valley	..... to 5.00	3.00 to 4.00	4.00 to 5.00	4.00 to 5.00
Daisies	..... to	1.00 to 2.00	1.00 to 2.00	1.50 to 3.00
Violets	..... to .....	..... to .....	.40 to .50	..... to .50
Mignonette	..... to	4.00 to 6.00	2.00 to 3.00	3.00 to 4.00
Snapdragon	6.00 to 10.00	6.00 to 12.00	3.00 to 6.00	4.00 to 8.00
Daffodils	..... to .....	..... to 2.00	1.00 to 2.00	2.00 to 3.00
Gladioli	4.00 to 6.00	..... to .....	..... to .....	..... to
Tulips	..... to	2.00 to 3.00	1.00 to 2.00	..... to
Hyacinths	..... to .....	..... to 2.00	1.00 to 3.00	..... to
Freesia	..... to .....	..... to .....	..... to .....	..... to
Calendulas	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 4.00
Lilac (per bunch)	..... to .....	..... to .....	.25 to 1.00	..... to
Sweet Peas	.35 to .75	.75 to 1.50	.50 to 1.50	.50 to 1.50
Gardenias	..... to .....	..... to	10.00 to 25.00	..... to
Adiantum	..... to 1.00	1.00 to 1.50	1.00 to 1.25	1.00 to 1.25
Smilax	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00	..... to 20.00
Asparagus Plu. & Spreu (100 Bhs.)	25.00 to 30.00	25.00 to 30.00	40.00 to 50.00	30.00 to 50.00

NEW CROP

CALDWELL THE WOODSMAN CO., - EVERGREEN, ALA.

tice" just now adds a graceful touch to many baskets, among the most pleasing combinations being tall spikes of fox glove with the statice, and another of sweet peas, roses and statice. The stay of the trailing arbutus was very short as well as very sweet, plenty of spring rain contributing to both results.

Business has been fair, supply large and demand good. The outlook for Mother's Day is very promising. All roses are in good supply and the carnation cut is large. Lilies are too plentiful. Lily of the valley and orchids are plentiful. Outdoor Spanish

Fancy \$1.35 per 1000
Dagger \$1.15 per 1000
Green Sheet Moss for hanging baskets \$1.75 per bag
Perpetuated Moss \$3.50 per bag
Hu. kleberry Foliage \$2.50 per case
L. v. ata (EVERGREEN OAK) \$2.50 per case

iris has been having an excellent market.

The flower market **NEW YORK** has been in an unsatisfactory condition during the past week. Outside of a few minor impulsive capers it has been almost moribund and as stock is coming in very freely on most lines the situation has been very exasperating for anyone having to try to sell the goods. Prices have no stability. Large quantities of standard material is gladly unloaded by the commission houses and growers' markets for whatever they will bring and anybody

(Continued on page 675)

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK

Telephones: 2200, 2201, Madison Square.

MOORE, HENTZ & NASH

Wholesale Commission Florists

85 and 57 West 26th Street

Telephone No. 786
Madison Square

New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

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CONSIGNMENTS SOLICITED

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{ 699 }

JOHN YOUNG & CO.

WHOLESALE FLORISTS

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Consignments Solicited

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THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Lewcothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.
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WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS

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M. C. FORD

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A Full Line of ALL CUT FLOWERS.
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P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes

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ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.

WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST GRADE OF VALLEY ALWAYS
GARDENIAS, DAISIES, ROSES, CARNATIONS

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FARRAGUT 759

Centrally Located, The Hub of the Flower Market Section

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BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones { 1004 } Madison Square
{ 1005 }

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only**ROSES AND CARNATIONS**

	Last Half of Week ending May 6 1916		First Half of Week beginning May 8 1916	
American Beauty, Special	20.00	to 25.00	20.00	to 25.00
" " Fancy and Extra	10.00	to 15.00	10.00	to 15.00
" " No. 1	3.00	to 6.00	3.00	to 6.00
Russell, Hadley	6.00	to 10.00	6.00	to 10.00
Killarney, Richmond, Hillingdon, Ward, Extra	4.00	to 6.00	4.00	to 6.00
" " Ordinary	2.00	to 3.00	2.00	to 3.00
Arenburg, Radiance, Taft, Key, Extra	6.00	to 8.00	6.00	to 8.00
" " Ordinary	2.00	to 4.00	2.00	to 4.00
Ophelia, Mock, Sunburst, Extra	6.00	to 10.00	6.00	to 10.00
" " Ordinary	2.00	to 4.00	2.00	to 4.00
Carnations, Fancy	1.50	to 2.50	1.50	to 2.50
" " Ordinary	1.00	to 1.50	1.00	to 1.50

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

Frank H. Traendly

Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797-798-799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality.

114 West 28th Street
NEW YORK

**HENRY M. ROBINSON CO. OF NEW YORK**

WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13-8510 Madison Square

Consignments Solicited

MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 673)

who is familiar with the clientele of Greeks and other sharp buyers who frequent 28th street and the Coogan building can readily imagine how generous they are liable to be at such a time. Without going into details, which would serve no good purpose, we can say without qualification that the business this week has been very "bum."

The wholesalers **PHILADELPHIA** have a subdued and apologetic look on their faces this morning. Evidently they have put in a pretty hard week—with things going against them. It seems that business fell off rather sharply and flowers came piling in more than ever. In other words a slump, hence the pensive. Like the first few days of summer weather to the human. He is at first very uncomfortable, but he soon gets used to it. It has been a splendid season, 1915-16, all the way through, and the growers can stand a little lull. There is no necessity for shedding an ocean of tears over their sad case. And we have Memorial Day still ahead of us.

The past two weeks **PITTSBURGH** have been comparatively dull, but at time of writing orders are coming in heavily for Mothers' Day. Carnations of course, practically all called for. They will probably wholesale at \$8 per hundred. Everything else will probably remain about the same.

The market has experienced quite a slump in business and in quality of stock. Roses are holding their own, however. Carnations have had a good call of late and it is expected that this week prices will go up on these, caused by "Mother's Day" demands. All varieties are in good supply at present. The hot days have shortened up the sweet pea crop somewhat and prices are advancing slightly. Lilies were a glut all week. There are a lot of outdoor flowers coming in, especially lilac, lily of the valley and tulips.

The flower market **WASHINGTON** is demoralized by the influx of stock from all points. There is no such thing as staple prices except on lily of the valley and orchids, both of which bring high prices. American Beauty roses can be had at \$10 and \$12 per hundred; other roses and carnations at any price one might choose to offer. The refuse heaps are piled high with lilies and sweet peas, and the quantities of spring flowers, particularly of dogwood, lilac, apple, peach and other like blossoms, are such as to overshadow the more expensive greenhouse stock. In many cases flowers are sold at so much a pile, the seller not taking the trouble to count them, and the production is only measured by the ability of the employees of the greenhouses to pick the stock as it becomes marketable. Withal, retail business has been fairly good and the stores are kept going nicely. Violets are still to be had and there is a fair showing of locally grown daffodils. Snowballs are being offered and gladioli and iris are fairly popular.

We are WHOLESALE FLORISTS

We handle every variety of cut flowers. We have 22 years' experience behind us, and we do not expect a gold medal for doing our full duty by our consignors and customers. You cannot go very far wrong when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK

Phones 2036, 2037, 558 Farragut

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2698

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A.M.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending May 6 1916		First Half of Week beginning May 8 1916	
Cattleyas	40.00	to 75.00	25.00	to 75.00
Dendrobium formosum	20.00	to 35.00	20.00	to 35.00
Lilies, Longiflorum	3.00	to 6.00	4.00	to 6.00
" Rubrum	.....	.....	.....	.....
Callas	6.00	to 8.00	6.00	to 8.00
Lily of the Valley	4.00	to 5.00	4.00	to 5.00
Daisies	.50	to 1.00	.50	to 1.00
Violets	.40	to .60	.40	to .60
Mignonette	2.00	to 6.00	2.00	to 6.00
Snapdragon	3.00	to 8.00	3.00	to 8.00
Daffodils	2.00	to 3.00	2.00	to 3.00
Gladioli	6.00	to 8.00	6.00	to 8.00
Tulips	2.00	to 3.00	2.00	to 3.00
Hyacinths	1.00	to 2.00	1.00	to 2.00
Freesia	.....	.....	.....	.....
Calendulas	1.00	to 2.00	1.00	to 2.00
Lilac (per bunch)	.25	to .50	.25	to .50
Sweet Peas	.25	to 1.00	.25	to 1.00
Gardenias	8.00	to 15.00	8.00	to 15.00
Adiantum	.90	to 1.00	.50	to 1.00
Smilax	8.00	to 20.00	8.00	to 20.00
Asparagus Plumosus, & Spreng (100 bunches)	15.00	to 25.00	15.00	to 25.00

I Can Sell Them For You!

I have an unlimited market for your flowers, any variety, in any quantity. Prompt returns of sales on consigned goods. Ready cash when due. A clean record of twenty-eight years in the Cut Flower Commission Business.

Write for information or call and talk it over.

Telephone **J. K. ALLEN** 118 West 28th Street
167 & 3058 Farragut NEW YORK

New England Florist Supply Co.

SPECIAL— 10 BARREL BALE Sphagnum Moss, \$3.50
276 Devonshire Street, BOSTON, MASS.

Fort Hill, 3469
TELEPHONES: Main, 4780 W

Established 1888

Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists
110 West 28th St., New York
We Solicit Consignments of New England Grown Novelties.

J. J. COAN, INC.

115 WEST 25TH STREET
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Tel., Farragut 5413-5891

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

Open 6 a. m. to 7 p. m.

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Flowers Sold on Commission
Consignments of
Good Stock Solicited
PERCY W. RICHTER, Mgr., NEW YORK
111 W. 28th Street

HERMAN WEISS

Wholesale Florist
Experienced, Progressive and can handle shipments of growers' product satisfactorily.
106 West 28th St., NEW YORK
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Advertisements under this head, one cent a word. Initials count as words.

Display advertisements in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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APHINE

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APHIS PINK

Shooting Mfg. Co., St. Louis, Mo.
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ASPARAGUS

W. H. Elliott, Brighton, Mass.
Asparagus Plumosus Natus Seeds.
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Asparagus Plumosus Seedlings \$5.00 per 1000. Ready May 1st. COLLINGDALE GREENHOUSES, Collingdale, Pa.

AUCTION SALES

The MacNiff Horticultural Co.,
New York City.
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Plant Auctioneers.
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K. J. Kuyk, Ghent, Belgium.
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BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
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BAY TREES

BAY TREES. Write for wholesale price-list.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

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BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
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BEGONIAS

Delivery from May 15th.
Lorraine, 2½ in. pots, \$12.00 per 100; Cincinnati, 2½ in. pots, \$15.00 per 100; Mrs. J. A. Peterson (New), 2½ in. pots, \$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHRS CO., Rutherford, N. J.

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"King Ideal" Boiler.
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Lord & Burnham Co., New York City.
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Hitchings & Co., New York City.

BONES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
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Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

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BON TREES—Standards, Pyramids and Bush. Price list on demand.
JULIUS ROEHRS CO., Rutherford, N. J.

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New York City.

Fottler, Flske, Rawson Co., Boston, Mass.
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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK Branch, 8-10 Bridge St.

CARNATIONS

Cottage Gardens Co., Inc., Queens, N. Y.
New Carnation Cottage Maid.
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Wood Bros., Fishkill, N. Y.
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F. Dorner & Sons Co., Lafayette, Ind.
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Guttman & Raynor, Inc., New York City.
Seedling Carnation Laura Weber.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 postpaid. I. L. PILLSBURY, Galesburg, Ill.

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John Lewis Childs, Flowerfield, L. I., N. Y.
Canna Roots.
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CANNAS—Continued

Rowan J. Irwin, New York City.
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50,000 CANNA ROOTS.

For Quick Sale.
\$2.00 per 100. \$15.00 per 1000.
F. O. B. West Grove, Pa.
B. Bronzed Leaves.

PINKS.

Eastern Beauty, B. John Farquhar
Evolution, B. Luray
Jennie Wallis Fahn Zenith
line

REDS.

Black Beauty Improved, B. Egandale, B.
Black Prince Gladlioll
Black Warrior Jupiter, B.
Brandywine, B. Mrs. Geo. A. Strohm, B.
Duke of Marlboro

YELLOW.

Brilliant Coronet Improved
Buttercup, Tall Dr. Nansen
Charles Lutz Wyoming, B.

VARIEGATED.

Adonis Richard Wallace
Burbank Golden Gate
California Director Holtze
Cloth of Gold

ALSO

Per 100
Conowingo, B. Red \$1.00
Kate F. Deemer, Yellow 4.00
Wm. Saunders, B. Red 4.00
Wabash, B. Pink 7.50

THE CONRAD & JONES COMPANY,
West Grove, Pa.

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R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
Pompon Chrysanthemums.
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Guttman & Raynor, Inc., New York City.
Early Lavender Pink Chrysanthemum
Alex Guttman, also Emma, a Garza
Anemone, Double Pompon,
pale pink.

CYCLAMEN

CYCLAMEN. Best strain. Separate colors or mixed, 3 in. pots, \$8.00 per 100, for May delivery.
JULIUS ROEHRS CO., Rutherford, N. J.

DAHLIAS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
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Send for Wholesale List of Whole clumps and separate stock; 40,000 clumps for sale. Northboro Dahlia and Gladiolus Gardens.
J. L. MOORE, Prop., Northboro, Mass.

IF YOU INTEND growing Dahlias for cut flowers then you will make no mistake if you will try my assortment, especially selected for cut flower production: Three whites, 3 pinks, 1 red, 1 yellow, 1 lavender, 1 fancy; all field roots, labeled true to name; per 100, 10 of each kind, \$3.00; per 1000, 100 of each kind, \$25.00. 50 at 100 and 500 at 1000 rates. Cash with order. Guarantee entire satisfaction. If interested in Dahlias, then please send for my wholesale trade list of Dahlias.

MANNETT HILL NURSERY,
W. A. FINGER, Prop., Hicksville, N. Y.

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DAHLIAS—Continued

NEW PAEONY DAHLIA
John Wanamaker, Newest, Handsomest.
Best. New color, new form and new habit
of growth. Big stock of best cut-flower
varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

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High Grade Plants for Retail Florists.
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GERANIUMS

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Geraniums out of 3½ inch pots, \$7.00 per
100. Cash please. **LEONARD COUSINS,
JR., Concord Junction, Mass.**

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Sharp, Partridge & Co., Chicago.
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Greenhouse glass, lowest prices. **JOHN-
STON GLASS CO., Hartford City, Ind.**

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H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
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GOLD FISH

Gold fish, aquarium plants, snails, cas-
ties, globes, aquarium, fish goods, nets,
etc., wholesale. **FRANKLIN BARRETT,**
Breeder, 4815 D St., Olney, Philadelphia,
Pa. Large breeding pairs for sale. Send
for price list.

GREENHOUSE BUILDING MATERIAL

King Construction Co., N. Tonawanda, N. Y.
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HAIL INSURANCE

Florists' Hail Asso. of America.
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Micbells Seed Store, Philadelphia, Pa.

HART'S HANDY HANDLE

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HEATHER

Anton Schultheis, College Point, N. Y.

HEATING APPARATUS

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HOSE

H. A. Dreer, Philadelphia, Pa.

Metropolitan Material Co., Brooklyn, N. Y.
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Hotel Cumberland, New York City.

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Book of Orchid Hybrids.

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Lager & Hurrell, Summit, N. J.

PANSY PLANTS

500,000 PANSIES

Field Grown In Bud and Bloom Mixed
Colors.

There is no better strain for commercial
purposes than my Superb Strain Pansies,
grown from seed of my own raising, and
the result of over 20 years' careful breed-
ing. Send a trial order and be convinced.
Fine, large plants, \$1.25 per 100; \$10.00 per
1000. Some extra large plants, \$15.00 per
1000. Largest Grower of Pansies for the
Trade in the United States. Cash with
order. By express only.

LEONARD COUSINS, JR.,

Concord Junction, Massachusetts.

PAPER POTS

The Cloche Co., New York City
Collapsible Paper Boxes.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.

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PHOENIX CANARIENSIS

In all sizes. Special price-list on demand.
JULIUS ROEHRS CO., Rutherford, N. J.

PEONIES

Peonies. The world's greatest collection,
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

PECKY CYPRESS BENCHES

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PLANT TRELLISES AND STAKES

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Rose Prima Donna (Mme. Paul Euler).

THE CONARD & JONES COMPANY.
Rose Specialists.
West Grove, Pa. Send for offers.

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Seeds with a Pedigree.
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SEED AND PLANT FORCER

The Cloche Co., New York City.

SPHAGNUM MOSS

New England Florist Supply Co.,
Boston, Mass.
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Live Sphagnum moss, orchid pent and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

SHELF BRACKETS

Metropolitan Material Co., Brooklyn, N. Y.
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SWEET PEA SEED

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VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
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Celery Plants: Golden Self-Blanching
(French strain); fine plants, ready now;
\$2.00 per 1000. Cash. Special prices on
large lots. BRILL CELERY GARDENS,
Kalamazoo, Mich.

VENTILATING APPARATUS

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VERMICIDES

Aphine Mfg. Co., Madison, N. J.
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VINCAS

13,000 Vinca Var., out of 4 inch pots,
\$12.50 per 100. Cash please. LEONARD
COUSINS, JR., Concord Junction, Mass.

WEED KILLER

Pino-Lyptol Chemical Co., New York City.
Pino-Lyptol Weed Killer.
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Next Week's Issue

Will be just right for advertising plants, flowers or supplies of any kind suitable for Memorial Day trade. Advertisers will make no mistake in taking advantage of this opportunity to enlarge their sales for this popular floral holiday. We shall do our best to make this issue such as will excite interest and ensure good returns for our advertisers from the people who read Horticulture.

Send Order and Copy
NOW

New Offers In This Issue**ADVANCE SASH-OPERATING DE-VICE.**

Advance Co., Richmond, Ind.
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AMERICAN GROWN EVERGREENS.

Blue Hill Nurseries, Julius Heurlin, Prop.,
South Braintree, Mass.
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BERMUDA ONION SEED.

Federico C. Varela, Teneriffe, Canary
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SWASTIKA BRAND CANNAS.

The Conard & Jones Co., West Grove, Pa.
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WANTS, FOR SALE, ETC.

Advertisements in this column
one cent a word. Initials count as
as words. Cash with order. All
correspondence addressed "Care
HORTICULTURE" should be sent
to 147 Summer St., Boston.

HELP WANTED

WANTED—Single man, about thirty, as
vegetable grower on private place; wages
forty-five dollars per month with room
and board. Steady job if satisfactory.
ROBERT MARSHALL, Supt., Glen Cove,
New York.

WANTED—Three first-class greenhouse
assistants. Must be thoroughly competent
and strictly temperate. Wages \$60 per
month with room and board. Write, en-
closing references from past and present
employers. J. CANNING, care Adolph
Lewishohn, Ardley, N. Y.

SITUATIONS WANTED

FOREMAN GARDENER with 17 years
experience on large private estates, expects
to make a change, where a capable man is
wanted. \$60.00 per month, board and room.
"G. D." care HORTICULTURE.

SITUATION WANTED—By Head Gar-
dener (English) on private estate; life ex-
perience in all branches of Horticulture
both under glass and outside; well up in
alpine and herbaceous plants, and all work
in general on a private estate. Good refer-
ences. Married, no family. "F. L." care
HORTICULTURE.

BUSINESS OPPORTUNITIES

The larger interest in a retail Flower
growing and Nursery business in one of
the best interior resort towns in California,
southern part. Consists of modern equip-
ment of glass. Business is a small corpora-
tion and needs active management. In-
terested and responsible parties would
best communicate through their attorneys.
Not much cash needed. It is a good oppor-
tunity to become established in an old
business with a splendid reputation. Ad-
dress CALIFORNIA, care HORTICUL-
TURE.

MISCELLANEOUS

WANTED TO RENT, with privilege of
buying, 10,000 to 20,000 ft. of glass with
dwelling house. Massachusetts state pre-
ferred. State full particulars in first
letter. Address "T." care HORTICUL-
TURE.

In writing to Advertisers kindly mention Horticulture

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.**THE ECONOMIC STRUCTURE OF
THE FLOWER BUSINESS.**A Paper Read Before the New York Flor-
ists' Club by A. J. Guttman.

Mr. President and Gentlemen:

At the outset allow me to assure you that I am aware of the fact that by attempting to review the economic condition of our business I have bitten off a very large chunk. But I believe in not being afraid to undertake the solving of a problem and though I may fail it is better to have undertaken and failed, than never to have undertaken at all. In this spirit I am making the attempt. I also assure you that my prime motive in addressing you is not prompted by criticism, but rather by the spirit of upbuilding and development. I am too old a veteran to hope not to be misunderstood by some, not because what I may say is difficult to comprehend, but because experience has taught me that all the problems of life are really very simple when we have found the proper angle from which to approach each, and, further, because I find after careful study, that the general economic condition of our beloved country, from whatever cause, is today such as to have developed many men lacking in faith and optimism. Another factor of tremendous importance is the very poor quality of mental food doled out to us, due to the low standard of efficiency prevailing in the journalistic profession, excepting, of course, the trade press. Surely you have all noticed it, especially during the past 21 months.

The merchants of a nation occupy a very important position and wield a tremendous influence; so does the press. Merchandising, though simple, is a science. General trading is a science and an art. The principal aim in life should be to live wholesomely and in order to so live every intelligent being chooses a vocation and his existence both morally and economically is according to his intelligence. We, as horticulturists, know beyond question that to obtain a healthy and prolific plant it is necessary to first sow a healthy seed in good soil. Just so it is impossible to develop a sound and true mental picture of anything without having first absorbed good and wholesome food. Whatever condition may exist or the economic condition of our business that exists at present is the reflex of that which has gone before—a reflex of the economic structure of the whole country, a reflex of the condition of the minds of the majority of men engaged in general merchandising and trading.

Unfortunately only a very small percentage of men are ready and eager to assume responsibilities. Probably they are afraid of obstacles and have not enough confidence in themselves to overcome these obstructions. If they only knew the great mental and material benefit to be derived from the

DREER'S "Riverton Special" Plant Tub

No.	Diam.	En.	Doz.	100
10	20 in.	\$1.15	\$16.00	\$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

working out of a difficulty—for that is the only way to obtain valuable experience, that is the way to learn to distinguish the good from the bad, wisdom from stupidity, the wholesome from the unwholesome and to best fit oneself to become a wise leader and builder. I dread to think of the great mass who having had but limited experience, in whose minds so much bad seed is being planted by the distorted and unwise food contained in the majority of daily publications, plus weekly and monthly magazines and also by books written purposely to confuse the minds rather than to enlighten. The fault must be charged to the so-called leaders of our country who in the great majority of cases are really only politicians, rather than constructive statesmen and philosophers or masters of economics. Merchants, teachers, editors, public officers, the clergy—in fact, all men holding positions of influence and trust ought to be students of economics. Perhaps the fact of our country being comparatively young and unfettered by conventions, with its enormous natural resources and elastic laws, is in a great measure conducive to full play of individualism. That to my mind accounts for the rather loose and in many respects impractical working condition that exists in most businesses as well as ours.

I emphasize these points for the purpose of showing that there is no special cause for criticising the working conditions of our business, our industry being yet so young. It is, however, meet and proper that we—a body of merchants knowing the value and importance of sowing good seed, make due endeavor to build healthy and practical working conditions. Looking back 22 years I can see the marvelous progress made in the development and increase of varieties of plants and cut flowers and in the so-called ornamental branch of our business as well as in the general distribution of the stock from grower to the public; also in the working conditions for employees as well as employers, due primarily to the early pioneers to whom we must give great credit and honor for their foresight, diligence and perseverance and to the various horticulture organizations also. Whatever recommendations I shall make are so made in good faith with malice towards none, feeling and be-

lieving that there is great room for improvement in our economic structure and, further, that such improvement can only be obtained by intelligent and practical co-operation combined with the spirit of idealism. This principle is so simple and works so automatically that some call it the new thought, the advance thought. It is an axiomatic truth that by building for yourself you automatically build for others. By tearing down others you automatically destroy yourself in time. No matter how scheming and formidable a man may be he cannot harm others without harming himself. It may take a generation or a lifetime but there is no escaping ultimate destruction and I am not superstitious. A man who is vindictive, over-suspicious and shortsighted cannot be a builder in the true sense of the word not forgetting, of course, that one must be cautious and reasonably conservative. The man who is successful in life and constantly grappling with new and interesting problems has no time to nurse a grudge. Also men must learn that it is useless to try to keep down—in other words, to retard the progress of a formidable individual. It is safer and better to think and act along the lines of the thought and policy of "live and let live." In this country progress is made by leaps and bounds; the small man of today is the

**STANDARD FLOWER
POTS**

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

25th & M Sts., Washington, D. C.

**NON-KINK WOVEN HOSE**

In all lengths, 1 1/2c per foot. With couplings. Unequalled at the price. Remnants shorter than 25 feet 10c per foot, coupled.

METROPOLITAN MATERIAL CO.

1392-1414 Metropolitan Ave, Brooklyn, N. Y.

THE FLORISTS' HAIL ASSOCIATION

Is a mutual organization, insuring greenhouse glass against hail. Both commercial and private establishments are accepted. For particulars, address

John G. Eiler, Sec., Saddle River, N. J.
Inquire Now.



WEED KILLER

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market

P.-L. CHEMICAL CO., 507-509 W. 19th St., New York

CORRESPONDENCE SOLICITED.

big man of tomorrow, and it behooves every merchant to avail himself of all opportunities for the advancement of his own interest even though he may feel that in doing so he would also benefit his contemporaries.

When approaching my subject, "The Economic Structure of the Flower Business," I felt that I could not do so comprehensively from any other angle than that of the economic condition of the entire country. I realize that my task is not only difficult but so vast that, compared with a large field approachable from so many different angles, I don't know with which phase of the question to commence. I am trying to keep in mind also the fact that you, Mr. President and gentlemen, are voluntary listeners and I must not talk too long for fear I may tire you, therefore will discuss only a portion of the many phases. This brings me to one of the phases that I will discuss which in my opinion is a most important problem—important because to my mind it is a practical and economic medium for the further great development of our art and industry. I refer to the question of Flower Shows.

Of all the arts none is so universally wholesome and inspiring, none so universally appealing as the culture of flowers and plants. The human mind, when in distress, when ill, when in need of a helpful thought, will respond more freely and gratefully to the flower than to any other influence. As an industry, floriculture together with its necessary accessories, can surely be regarded as legitimate. To make the flower show act as the powerful agent it is intended to be it is to be hoped that each ambitious and faithful member of our craft shall avail himself of the great advantage thus derivable. The clear duty of each individual and of each of our various organizations is to co-operate in and conduct these shows in such a manner as to encourage a great many exhibitors as well as a large attendance. Box office receipts should only be a secondary consideration. In other words, the educational benefit to be derived by the public from these exhibitions should be the only or chief consideration, for in that way the trade as a whole would benefit thereby to the fullest measure. For instance, instead of only a handful of growers, seedsmen, retailers and ornamental horticulturists being represented the majority in each of these branches should have exhibits or,

rather, I would say that they should to a greater degree rise to this occasion and fully appreciate its tremendous importance and benefit. It was a great shock to me to find such a small number of growers, nurserymen, seedsmen, retailers, etc., represented at our recent show. I had hoped that the craft would recognize and be eager to avail itself of this great medium for the general advancement of our business and I warn the craft in general that they should not miss a great opportunity whenever it presents itself for general progress. Can't you see that our great leaders and most progressive men are giving much energy and attention to shows? I am not familiar enough with the general course and management of the recent show to say where the fault lies. The fact is clear, however, that only a small portion of the craft was represented. Let us hope that next year this will not be so, that the craft will avail itself of the chance. The newspaper publicity, on the whole, was anything but comprehensive and dignified. Here again is abundant evidence of our loose and inconsistent economic structure. The newspapers could, with proper guidance, act as a medium for wholesome and instructive information to the public. I know it is difficult to work with poor material or rather with incompetent artisans, but feel that it is not impossible to remedy this fault. I also cannot believe that the management needed to lack timely and voluntary assistance, because I cannot imagine any member of the craft declining to do his might when requested. The show, as a whole, was fairly satisfactory. The quality of stock shown was excellent but it was not enough of a competitive exhibition. The fact that more growers were not represented may be charged up to The National Flower Show at Philadelphia, but, to my mind, there was little or no excuse for the lack of enthusiasm shown by many of the craft especially by our foremost retailers. Retailers, wake up! Good wholesome advertising you should do, you must do, if you want to stick and advance. You should not let this great chance go by without availing yourself of it. Right here I wish to make another suggestion to the management, that a working condition be adopted whereby the retailers could receive the full measure of co-operation. Each retailer occupying space should be able to send invitations to as many people as he wishes. Those not occupying space can pay a certain sum. These invitations, to cost but little to the retailer, should be printed in nice style and be uniform. We should not be far-sighted merchants if we aim—first, to make money out of the show itself. We will not only not make money but we will have sown poor seed and while a few master minds among us may benefit



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temporarily the craft and industry as a whole will be harmed and these few master minds will be borne down with the rest. Everything should be done in keeping with dignity and artistry.

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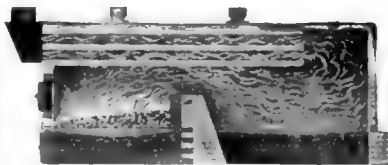
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New York, N. Y.—Massas Floral Co., Lenox avenue, one house.

Des Plaines, Ill.—George Hoeft, two Garland houses each 28 x 150.

Bluefield, W. Va.—Alexander Cut Flower & Plant Co., range of houses, American Greenhouse Mfg. Co. construction.

Wilkes-Barre, Pa.—John Conyngnam, extensive range of curved-eave conservatories and palm house. King Construction Co. contract.

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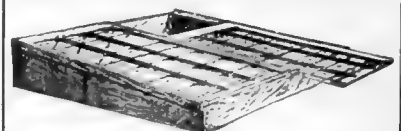
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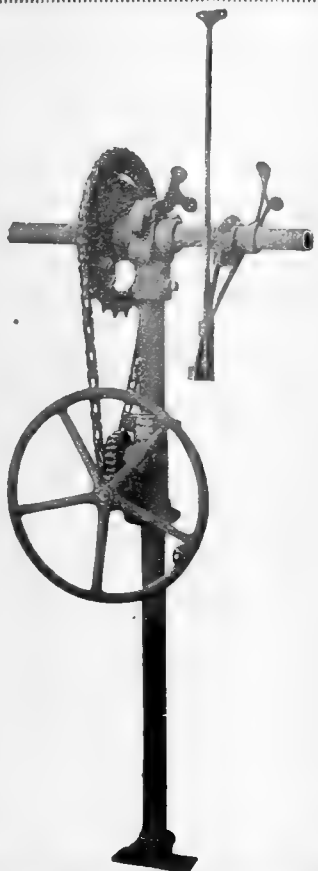
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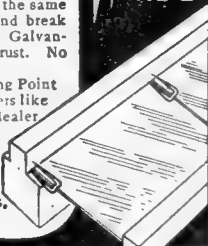
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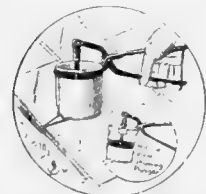
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Vol. XXIII
No. 21
MAY 20
1916

HORTICULTURE



Boston May Flower Show

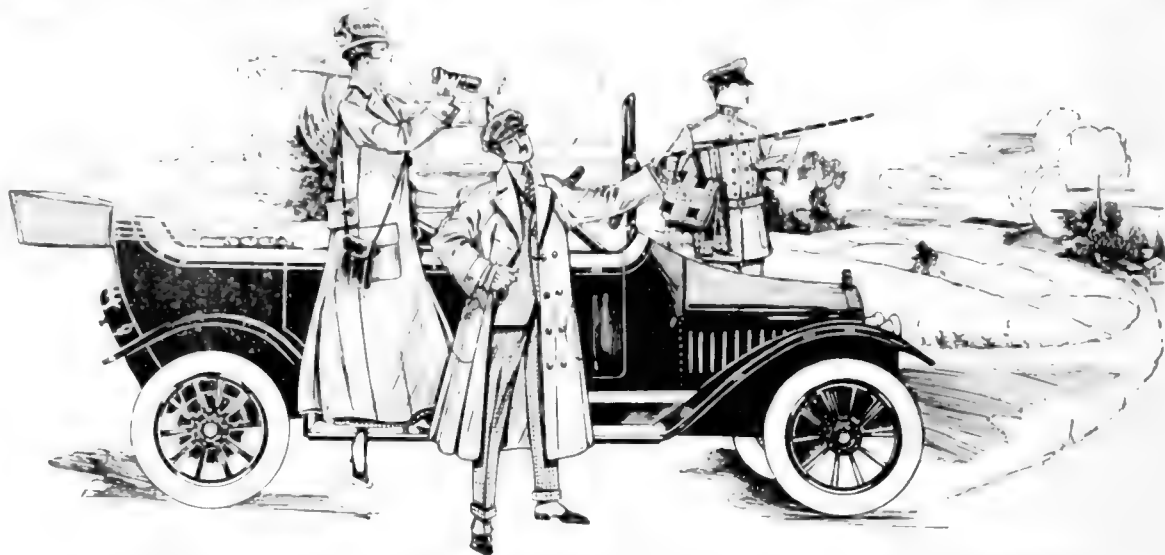
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NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—*Pope*.

Ferns

Now is a good time to sow spores of those ferns, useful for filling small ferneries. Partly fill pans with crocks and some coarse material such as sod. On top place a finely screened compost of soil three parts, leaf mold and peat one part each, and some sand. Water with a fine rose and let stand for four or five days before sowing the spores. Scatter the spores evenly and press in. Cover with glass and keep in a shady humid house where a warm temperature is held. The benches and floors should never be allowed to remain dry for any length of time. Stand the pans well to the glass that has been shaded so they will have plenty of light without direct sunshine. Now that young ferns are making fairly good growth they will require more water right along.

Flowers for Memorial Day

Spiraea japonica and its various forms will make one of the best flowers for that date. Where they are well out a slight shade will hold them in good condition until they are sold. A temperature of 55 to 60 degrees at night will be preferred to a higher one. Hydrangeas will take about the same care and temperature as spiraeas. Both these plants will need lots of water at the roots now. It can be applied two or three times a day. Give plenty of ventilation. It is a hard proposition to hold lilies in good condition at this time of the year. When well out they should be placed in a cool shady place and never allowed to want for water. Look them well over now for fly and give two or three successive fumigations. Benches containing ten-week stocks, gladioli, snapdragons, candytuft and other Memorial Day stock in pots should be looked after often in order that none be allowed to go wrong.

Lycastes

The flowering season for these orchids is now over, and with new growth starting any needed potting should be done. Repotting once in two or three years is all these plants usually need. Few orchids are more generally satisfactory than the old *Lycaste Skinneri* and its beautiful pure white form. The flowers hold fresh for ten to twelve weeks on the plants and keep for three weeks in water. They grow better in equal parts of fern fibre and fibrous loam than in pure fern fibre. When growths begin they should have abundance of water. Even during the season of rest they should never be allowed to become too dry at the roots. They do well in pots or pans half filled with clean broken crocks. In summer they succeed best in a cool north house, but they should have a rather warmer position in

winter. Among the numerous species *Lycaste Skinneri* is undoubtedly the best bloomer. *Lycaste cruenta* and *Harrisoniae* are also very good.

Primulas

After the middle of May primulas should be grown in a cold frame and if they are partially plunged in fine coal ashes, all the better. A spraying overhead each afternoon will be beneficial. The earliest sowing should now be in 2½-inch or 3-inch pots. The compost should be light, equal parts of leaf mold not too much decayed, and loam with a little sand. The young plants want to be kept near the light, but need a little shade from the direct sun. Sowing primula seed is still seasonable. You will not get as fine Christmas plants as from the earlier sowings, but they can be grown into nice little stock in 4-inch pots which is a convenient size for marketing. Primula seed wants a brisk moist heat to germinate, but the plants themselves should never be subjected to any forcing conditions. Prick out and pot off when large enough. While they need some shade do not overdo it as it only makes them become drawn and weakly.

Single-Stem Chrysanthemums

From now on up to the first week in June is good to put in cuttings for 6-inch pots. Where the idea is to grow single-stem chrysanthemums in pots there is no better time. Never let the cuttings show signs of wilting either from want of moisture or proper shade until rooted. It is advisable to change the sand for this batch of cuttings so as to avoid as much as possible the cutting-bench fungus. When rooted, pot into 2½-inch pots and thence into 4-inch, and finally to their last shift—a 6-inch pot. Never permit the plants to become pot-bound until the last shift is reached. For the last shift use a rich compost. At least one-third of the bulk of soil should be well rotted cow manure and a good sprinkling of bone dust. Make it a practice to syringe several times a day. The best place to grow those plants during the summer is on a bench where there is side ventilation which can be kept open day and night. See that they are syringed and watered at the roots every day.

Stock Plants

In order to have plenty of stock for another year we shall have to lay aside a number of plants for the production of cuttings from September on and through the winter. Now is the time to make selections before they are all gone. Give them a good piece of ground and with care they give you a foundation for another year's sales. Label true to name when planting out.

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Trouble ahead? We are informed by the American Consul U. S. Commerce Reports, that the Board of General at London, England, through the Trade there proposes shortly to issue rules restricting the importation into England of certain commodities, among those mentioned being bulbs, flower roots, plants, trees and shrubs. This is important if true. We are not informed as to the powers exercised by the body called Board of Trade, but should any widely

effective can be placed upon the shipment to England from Holland, and elsewhere of the various bulbs, plants, etc. of course. Great Britain has hitherto been a heavy importer of flowers. The American market of next fall would be a very important one, perhaps, be imagined. The fact that the Board of Trade does not find existence to be a very important one in these momentous days.

"How now be the things, the which if a man has at his command his life flows gently on."

At a recent meeting of the New York Cut Flower Exchange a vote was passed regarding the making up of floral designs and retailing of flowers on the market premises. This action, which has

long been contemplated, gives general satisfaction to the market dealers themselves as well as to the retail trade. The making up of flowers in any form for retail customers by wholesale people has at all times been something about as aggravating to the retailer as the waving of a red rag before a bull. As a business principle their contention is right, as has been always admitted by legitimate wholesale dealers. But there are two sides to the question and in any town where the retail storeman makes a practice of buying flowers direct whenever he can from producers who maintain no city headquarters, while one or more wholesale dealers are paying rent and carrying stock with which to supply him, then the retailer stands on rather shaky ground when he begins protesting against the wholesalers' competition. A spirit of fairness is essential on both sides for the right settlement of such controversies and no settlement can be really permanent and effective unless this fact is recognized and the "golden rule" applied.

Friend of the flowers

Reports from various sources indicate that not for many years have the spring wild flowers been so abundant or so beautiful as this season. Trailing arbutus, as we have before mentioned, has rarely been so perfect in foliage and in purity of color. Violets, blood-root, hepatica, springbeauty and other gems of the woodland seem to have found the peculiar characteristics in the weather of the recent winter and spring greatly to their liking and in our gardens the same healthy vigor and profuseness of bloom is in evidence among all the low-growing spring-flowering border plants. The reason for it all is easily discerned in the deep snow which this year covered so large a section of the country and protected these things against the ferocity of the February and March weather. In many of the spring-flowering garden shrubs it is interesting and instructive to note the well defined line of the snow blanket, flowers being produced in profusion on the lower branches of forsythias and azaleas of the Daurica type, etc., while above the line practically every flower is blasted. At this season of the year one of the most momentous questions for the gardener is that of the effect of the winter on many of the most prized garden favorites. One can never be sure until buds are well along as to what he may expect from his rhododendrons, cornuses, wisterias, early clematises and many other things which because of their precocity are so easily started into activity by a few warm days in early winter and their flower buds, divested of their protecting overcoats, doomed to be ruined later on. The problem of winter and spring effect is full of puzzling contradictions and one year's deductions are quite likely to be overthrown by the experiences of the next year. But one thing is sure—deep snow, long tarrying, is the garden's best winter friend.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Early Planting

With labor very scarce and high priced, it will be a good idea for growers with large places to handle to begin planting early. The first of August will not be very long slipping around, and all houses with young plants should be planted by that time, with the exception of Shawyer perhaps, so as to get a good root system before the dark days of winter. With the plants ready to go into the benches it will be very simple to empty the houses that are poor and replant them. There may be houses that are well cut off and do not promise to do much at once and the plants may not be ready to go in until July. These houses can be dried off a little, then mulched, and started all over again, producing a fine cut of roses during the summer months when roses are scarce. Roses cut from a house treated in this manner will be far superior to those cut from houses that have not been dried off and started again but have been kept going all the time. A little planning will save a good deal of time and money. To begin with, see that all the necessary tools are on hand so that no time will be wasted waiting when the work is once started. Then come the repairs to the benches. If they have to be rebuilt see that all the necessary material is right there before the work starts. One cannot depend on speedy deliveries by railroads now, so it is best to order things long before they are really wanted. Now for the repairing. We never put any new boards into old benches unless we are all out of old boards. We try to make the benches last as long as possible and then rebuild the whole business, keeping the best boards for repairs in the old benches in the other houses. These new benches will last quite a while and it is a pleasure to wheel into a house with good benches not having to worry about the boards breaking, etc. Then, too, when the bench begins to decay it will go all at once or nearly so and can then be rebuilt again. This is much better than patching all the time and never having a real good bench.

Whitewashing

Right here lies one of the secrets in successful rose growing. After all the old earth is taken out as much as possible with the shovel, wash the bench thoroughly with a hose, having as good a pressure as is possible to get. See that all the old dirt is washed out even though

this may increase the water bill a little. After this is done whitewash the benches well with hot lime and apply plenty of it. If the bench has dried off after being washed out it should be sprinkled well again, as it is much easier to whitewash a wet bench, and then, too, the lime will spread better, filling up every little crevice which otherwise would be left unfilled, as the thick lime-wash would not get into it. Copper sulphate is very high this year and it may not be possible to add a little to the lime but we think it pays even at the high price as the quantity added need not be very large. A pound will be sufficient for ten gallons of lime wash. This little addition will do away with a great many germs and fungi of all sorts, which otherwise might escape unhurt and be right there when the new soil comes in to prey upon the new tender roots. Use fresh stone lime for making whitewash, never using old air-slacked lime. A little practice will soon show just how to slack it to get the best results, and it should be applied as soon as it is slacked and while still hot. Do not use the hair brushes, as they are too expensive and will not last long. Secure the common fibre brushes which are very tough and can be bought cheap. Needless to say, all old soil should be scraped out from under the benches before the benches are washed out and whitewashing begun. If plenty of lime is applied it will act as a preservative, too, and benches that are well whitewashed will last much longer.

Concrete Benches

We do not know how other growers make out with these, but we do not care for them very much the first few years after they are built. We cannot get anywhere near the cut from these that we can off the wooden benches, as the roses will not grow as well no matter how carefully they may be looked after. Then, too, there is a possibility that the houses may be used for something else besides roses in the future, and if rose benches were built of concrete they could not be changed. If the benches can be built outside, allowed to weather for a year or two in the open air and then set up in the houses, it would insure much better roses the first few years. They will not drain so well and the drainage cannot be changed for different soils as can be done with wooden benches. There is much more work attached to the building of concrete benches than would at first seem, and with labor hard to get it becomes all the more difficult.

ST. LOUIS 1917 SPRING SHOW.

The chairmen of all the committees for the 1917 Spring Flower Show at St. Louis held a meeting at the Bourdet Floral Co.'s office on Tuesday evening, May 9, to report to the Executive Committee, of which Jules Bourdet is the head. Adolph Jancicke reported that the preliminary schedule would be ready for mailing by the latter part of June.

MEMORIAL DAY.

From the silvery wings of memory,
The feathers of peace are falling today;
To cover the graves of thousands, sleeping
Their manhood away.
To bid and lass is given an angel's grace
To strew with flowers each resting place.
Music of unforgetten days, echoes thro' the
Woodland ways.
While the fragrant links of a flowery chain
Girdle the hillside and deck the plain,
The pendulum of time is marking the way
For the even step of blue and gray.
May peace and its blessings, hold, under
The Old Flags' starry fold.

George Herriott

WASHINGTON TEST ROSE GARDEN

To Members of American Rose Society:

On May 23 the members are invited to meet at 9 A. M. at the store of Messrs. Gude Bros., 1214 F street, N. W., Washington, D. C., and proceed to the Garden. The invitation to attend this examination of the hundreds of out door roses is cordially extended to all who may be able to do so.

BENJAMIN HAMMOND, Sec'y.

CLUBS AND SOCIETIES

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

Approximately 100 members were present at the meeting of the Horticultural Club on Tuesday, May 16th.

After a lively meeting, the Secretary read the minutes of the previous meeting. The president, Mrs. Weld, spent at the estate of General Weld, a vote of thanks was extended to Mr. and Mrs. Weld for their hospitable reception. A certificate of superior merit was awarded Thomas Coles, the gardener in charge of the estate. Mr. Coles then delivered an instructive and entertaining lecture on Rock Gardening in its various aspects. His knowledge of the subject was exhaustive and profound, and bits of humor were cleverly introduced by the speaker at opportune times. Though his talk lasted for more than an hour the interest of the audience never flagged and many took copious notes. A lively discussion followed. William J. Kennedy, speaking for the Executive Committee, told of the difficulties in obtaining suitable speakers and apprised the members that there was an open lecture date to be filled for next October.

Some interesting specimens were on the exhibition tables. *Fritillaria imperialis*, from Harvard Botanic Garden, were awarded a report of merit. W. N. Craig's exhibit of primroses was commented upon favorably and awarded a vote of thanks. *Primulas capitata*, *frondosa* and *cortusoides*, together with other varieties, were in his collection. A gigantic annual—*Statice Suworowi*—was shown by Thomas Coles, also a *Begonia Knowlesiana* and both were awarded reports of cultural merit. Some interesting photographs of the Dedham rock gardens were eagerly viewed by those who had not visited the estate.

ST. LOUIS FLORIST CLUB.

The St. Louis Florist Club meeting on May 1 was not up to the usual standing in attendance, the planting season keeping many of the regulars, including the president, from attending. Vice-President Wells conducted the affairs in an excellent manner. The trustees announced that during June, July, August and September the meetings would be held out of doors. W. J. Pilcher extended an invitation to hold the June meeting at his place in Kirkwood, which was accepted.

The 1917 spring flower show committee reported good progress. The trustees were instructed to arrange for the annual picnic for the latter part of July. A committee, headed by John S. Carter, was appointed to report at the next meeting on the advisability of establishing an associate membership. Alexander Lorie then delivered a lecture on the Development of the Carnation, which proved the most interesting lecture the club has had for many years. The question box discussion followed this and kept the members busy for half an hour. The next meeting will be the thirtieth anniversary of the club and the trustees were asked that a fitting celebration be arranged for this event at the June meeting.

Meetings Next Week

Monday, May 22.

Flowers and Gardeners Club of Rhode Island, Sweet Hill, Providence, R. I.

Gardeners and Florists Club of Baltimore, Florist Exchange Hotel, Baltimore, Md.

Tuesday, May 23.

Newport Horticultural Society, Newport, R. I.

Edinboro Horticultural Society, Edinboro, N. Y.

Wednesday, May 24.

Oyster Bay Horticultural Society, Oyster Bay, N. Y.

Friday, May 26.

Connecticut Horticultural Society, County Bldg., Hartford, Conn.

Monmouth County Horticultural Society, Red Bank, N. J.

Pasadena Horticultural Society, Pasadena, Calif.

COMING EXHIBITIONS.

June 1-4, Pelham Bay, New York. Summer Show International Garden Club.

June 9-10, San Francisco. American Sweet Pea Society, Palace Hotel.

June 28-29, Newport, R. I. Newport Garden Association and Newport Horticultural Society, on the grounds of the Garden Association.

August 11-12-13, Boston. American Gladiolus Society, Horticultural Hall.

July 14-15, Bar Harbor, Me. Annual Show of American Sweet Pea Society.

June 27-28, Hartford, Conn. Summer Show of Connecticut Horticultural Society.

June 16, Providence, R. I. Summer Show of Rhode Island Horticultural Society.

Sept. 18, Orange, N. J. N. J. Floricultural Society's 11th Annual Dahlia, Gladiolus, Fruit and Vegetable Show.

WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

A charming feature of the meeting of this society last Friday evening was the excellent display of choice and well-grown stock. In the competition on vase of outdoor flowers open to assistant gardeners only, 1st prize was awarded to Alex. Clarkson. A cultural certificate was awarded to Thos. Ryan for Spencer sweet peas; Jas. Stuart for *Calceolaria Stewartii*; Wm. Graham for *antirrhinum*. Honorable mention was voted to the following exhibits: Tomatoes "Bonnie Best," from John Andrew; mignonette "Triumph," from J. E. Linane; sweet peas from Wm. Whitton; Gladioli "Non plus Ultra," from P. W. Popp; vote of thanks to Wm. Whitton for hydrangeas and calendulas, and Jas. Linane for *Clarkia elegans*, who was also highly commended for specimen *calceolaria*. The enterprise of our enthusiastic membership is commendable. The dates of the summer show to be held in Mamaroneck, N. Y., have been fixed for June 16-17. Several substantial additions to the premium list were reported. The next meeting will be held June 9, when an exhibition of seasonable flowers will be in order. P. W. Popp, Cor. Sec.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Houston Convention Garden.

Superintendent Brock of the Convention Garden now being installed on city property at Houston, reports that the exhibits accepted so far are small in number. Intending exhibitors are requested to send forward their exhibit at once as the convention dates are rapidly approaching.

The very liberal treatment accorded our society by the City of Houston, in setting apart a splendid site for the Garden, and arranging to take upon itself the burden of furnishing labor and material in order to make the installation a success, deserves more than the scanty recognition at present forthcoming.

All who can exhibit plants and shrubs are urged to do so. The cost, 10 cents per square foot, is ridiculously small, insufficient to prevent anyone from exhibiting on the ground of expense, and in making an exhibit there surely is some pleasure to be found in aiding the society to carry out its plans to have a Convention Garden wherever the annual convention may go.

Superintendent Brock would be pleased even if only fifty exhibitors would take 100 square feet each. He points out that although the date is late, potted stock can be plunged in, and a creditable showing made.

JOHN YORNG, Sec'y.

NASSAU COUNTY HORTICULTURAL SOCIETY.

An extra large number of members were in attendance at the monthly meeting of the society, in Glen Cove, N. Y., on Wednesday evening, May 10. Final arrangements were made for holding a tulip show on May 19 and a rose show in June, date to be selected by the executive committee. Ernest Westlake was appointed manager.

Secretary Gibson read a large number of letters offering prizes for the Autumn Exhibition, also the essay "Horticulture as a Profession From the Standpoint of a Gardener," by John Johnson, received from the National Association of Gardeners. Awards were made to the following exhibits: Gladioli, 1st John W. Everitt; Cauliflower, 1st Robert Jones; Pansies, 1st Thomas Twigg; Roses, honorable mention to J. W. Everitt; Pansies, cultural certificate Thomas Twigg; vote of thanks to Frank Dinda for new chrysanthemums Alex. Guttman and Emma.

JAMES MCCARTHY, Cor. Sec.

NEW JERSEY FLORICULTURAL SOCIETY.

At the meeting of this society, in Orange, N. J., on May 15th, it was decided to hold a Rose Night at the next meeting, June 19th.

Prizes will be awarded for vase of 18 white roses: 1st prize, \$3.00; second, \$2.00, donated by Peter Duff, Jr. Display of hardy roses: 1st,

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\$5.00, donated by H. J. Skeons; second, \$3.00, donated by the society. This society has always closed its meetings in July and August but it will hold its regular meeting in July to make final arrangements for the 11th Annual Dahlia, Gladioli, Fruit and Vegetable Show, September 18. A gold watch fob was awarded to Fritz Berglund, who resigned his position as treasurer of the society last year for his faithful services during the three years he held office.

Max Schneider received the following points:

Carnations	90 points
Tulips	50 "
Sweet Peas.....	60 "
Calceolaria Hybrida....	65 "

GEO. W. STRANGE, Sec'y.

LENOX HORTICULTURAL SOCIETY.

The May meeting of the Lenox (Mass.) Horticultural Society was held on Wednesday, the 10th. The schedule for the Fall Exhibition was adopted. The class for twelve blooms of chrysanthemums in not less than six varieties disseminated in 1916 was altered to twelve blooms in not less than four varieties, owing to the apparent lack of good novelties this season.

A magnificent new orchid, *Odontoda "Gladys,"* from A. N. Cooley, Pittsfield, was awarded a first-class certificate, and a vote of thanks given to E. J. Norman for *Cereus grandiflorus*.

A paper entitled "The Use of Native Plants for Ornamental Planting" was read and well discussed. Several members spoke of the poor success which attended their efforts to transplant the native flowers and shrubs,

especially in the case of the mountain laurel.

The next meeting will be held on June 14.

J. H. FRAMPTON, Asst. Sec.

CLUB AND SOCIETY NOTES.

The meeting of the Rhode Island Horticultural Society was held in the Public Library, Providence, on Wednesday evening, May 17. Arthur Sel-

low lectured on the Cultivation of Dahlias for Home Decoration and for Exhibition.

The May meeting of the New London Horticultural Society was held on May 11. Mr. Davis, of the Connecticut Experiment Station, New Haven, gave an interesting talk on the Brown Tail and Gipsy Moths, which he illustrated with lantern slides.



VIEW IN SPRING FLOWER SHOW MASSACHUSETTS HORTICULTURAL SOCIETY.
Plant Group by Wm. C. Rust. Gardener for Mrs. C. G. Welch

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GARDENERS' AND FLORISTS' CLUB OF BOSTON.

Visit to Gen. Weld's Garden.

Among the numerous private estates in the vicinity of Boston very few possess the individual charm of that of Gen. Stephen M. Weld, of Dedham, Mass., where the Gradeners' and Florists' Club of Boston were privileged to spend a very delightful and pleasant day on Monday, May 15. Situated amongst natural surroundings, here exists one of the most beautiful pieces of rock gardening to be found anywhere in New England, and it is well worthy of a visit at the present time by anyone interested in this particularly pleasing form of gardening, and one that is coming into vogue rapidly. Here a large piece of water is surrounded by rocky slopes that are literally clothed with a profusion of choice and interesting alpine plants. Any enumeration of the whole of these would be too lengthy a matter, but for the benefit of those interested in rock gardening or who contemplates constructing one, some of the more showy and desirable subjects will be briefly mentioned. The rock is well wooded with oaks, birch, and dogwood, giving ample shade. Large clumps of rhododendrons grow close beside the water and bid well for a fairly good show of blossom, while *Andromeda floribunda* is fully out. By the side of a charming waterfall *Adiantum petatum* is fully at home. Large groups of trilliums are noticed in several rocks. Epimediums are conspicuous in many places. *Arenaria balearica* is one of the gems of the rock garden, loving to grow over damp rocks, where it

forms a carpet of green and is covered with pretty white flowers. The soft blue of *Phlox divaricata* and its white variety are plentiful, also *P. subulata*. On the higher places *Rhododendron Kaempferi* is just commencing to flower, while covering the larger rocks in many places were quantities of *Hydrangea petiolaris*. The pink flowered *Saxifraga cordifolia* does well and *Leucocjum aestivum* looking like a large white snowdrop was flourishing, many of the flower scapes a foot high. The delicate mauve-blue Virginian cowslip (*Mertensia virginica*) flourishes close beside the water, while higher up grows the sweet scented *Daphne Cneorum*, also one of the gems of the rockery. Another very interesting subject noticed was *Gentiana acaulis*, usually a difficult plant to establish, but here grows one of the finest patches to be seen for many a mile. A moist, cool situation with good drainage is essential for success with this plant. Primulas abound in several places, usually near the water. The yellow *Alyssum saxatile* does well hanging over the front of a rock. *Aubrietias*, *Arabis* and *Erythroniums* are right at home. The pretty rose colored *Helonias bullata* is seldom seen in gardens, but is flourishing here in the damper portions of the rockery. In one shady part the blue *Anemone blanda* and other species are prevalent. Dwarf irises, *Euphorbia polychroma*, *Fritillarias*, *imperialis* and *Meleagris*, *Dodecatheon Meadia* and violets especially by the side of the walks are very much at home. *Viburnum Carlesii*, *Rhododendron carolinanum*, *Doronicums* and tulips of various species are all in abundant

evidence. Stepping stones and water falls make this rockery a place one could linger in indefinitely, and also it was noticed that fortunately there is lots of room left for further extension of this charming feature.

There are other things besides the rockery here. Adjoining the residence is a conservatory full of showy flowering plants. A small flower garden is glorious with pansies and tulips, with peonies to flower later.

CLUB AND SOCIETY NOTES.

Four exhibitions, open to commercial growers, private estates and amateurs, will be held by the Houghton Horticultural Society, of Lynn, Mass. Numerous prizes are offered. The first exhibition will be held June 2 and 3 at the Public Library and will include hardy herbaceous flowers and German irises. Roses, peonies and hardy flowers will be exhibited June 23 and 24 and sweet peas July 14 and 15. The 42d annual autumn exhibition and festival will be held in Odd Fellows' hall Sept. 19, 20 and 21. For this exhibition 107 prizes will be given. Cash prizes are to be awarded in memory of former members of the society.

The Worcester County, Mass., Horticultural Society's May exhibit in Horticultural Hall on May 11, was declared one of the best May exhibits the society has had in years. The potted plants were of exceptional fine quality, and table decorations were artistically designed. H. F. A. Lange, E. W. Breed, A. W. Hixon, Lucy M. Coulson, Mrs. L. C. Midgley and Mrs. W. E. Sargent were among the prominent prize winners.

EFFECTS OF THE WINTER IN THE
ARNOLD ARBORETUM.

The high temperature of January started the development of the flower-buds of some plants, for example those of the Silver Maple (*Acer saccharinum*) which was in full flower on the first day of February, or several weeks before the usual time. January was followed by two months of cold weather and frequent snow-storms. The snow protected small plants which without this covering would probably have suffered, and the number of plants that have been killed or seriously injured in the Arboretum is surprisingly small. The flower-buds, however, of many plants have been entirely or partially killed, while other plants which in an ordinary season lose their buds have not suffered and promise to yield unusual crops of flowers. The flower-buds of all Peach trees are killed but those of the Plums and Crabapples appear to be uninjured. The spring is from ten to twelve days later than usual.

Rhododendrons have suffered less than they did in the winter of 1914-15. Occasionally a leaf has been browned or a small branch killed, but apparently a good many flower-buds have suffered and the prospect for flowers is not so good as usual. *Rhododendron ponticum*, which usually suffers in this climate, appears to be killed outright. This plant which is so hardy in England, where it sometimes becomes a troublesome weed, has seriously interfered with the successful cultivation of Rhododendrons in this part of the world, for it has been used in European nurseries as stock on which is grafted the hybrids and varieties of other species, and the hardiness and vigor of many of these plants has been unfavorably influenced by this tender stock. A little hybrid Rhododendron known as *R. praecox*, "Little Gem," is perfectly hardy here but it blooms so early that in about nine years out of ten the flowers after they open are spoiled by frost. This year not a flower-bud has been injured and the plants are now in flower.

Forsythias. Many flower-buds of these plants have been killed as they were two years ago. In the low ground of the general shrub collection the flower-buds of all the species and varieties of Forsythia have been entirely killed with the exception of those of the Albanian *F. europaea* which are uninjured. If the flower-buds of this species are better able to support cold than those of the other species, which are all natives of eastern continental Asia, the European plant should be better known and more generally cultivated. One of the last plants discovered in Europe, it is a vigorous, fast-growing shrub with more erect stems and branches than are usually found in the other species of this genus. The flowers are not quite so showy as those of *F. suspensa* and its hybrids and varieties, but they are always abundantly

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produced and of good color. This plant is still rare in gardens and it is doubtful if it can be found in American nurseries.

Magnolias. The Japanese shrubby species, *Magnolia stellata*, is usually

the first of the Magnolias to flower in the Arboretum and the petals are sometimes browned by a late frost. This year many of the flower-buds have been killed and only a few flowers much reduced in size are now

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NEWS NOTES.

Burlington, Vt. Miss Frances Hill
has accepted a position with W. E.
Peters, the florist.

Exeter, N. H. John R. Perkins has
bought the florist business long con-
ducted by his father, William S.
Perkins.

Syracuse, N. J. Frederick Meer-
bott, florist, has filed a suit for \$10,000
against the Public Service Gas Co.,
claiming that gas escaping from the
company's pipes has ruined many
plants and flowers in his greenhouses
on Paterson Plankroad.

Worcester, Mass. "Horticultural
Day" was the attraction for Worcester
Rotary Club members at the weekly
luncheon on May 11, in Bancroft Hotel.
Harry I. Randall presided and the
speaker was Adrian Van Leeuwen. An
attractive horticultural display was
set up in the small ballroom of the
hotel.

"Whatever the weather may be," says he,
"Whatever the weather may be,
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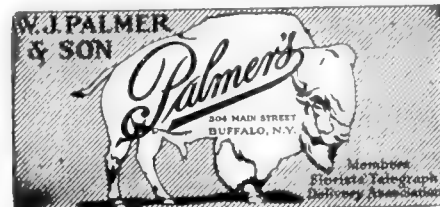
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ATTENTION=NEW ENGLAND TRADE

Our Shipping Trade for the coming Holidays promises to surpass that of previous years.

Our consignors assure us of an increased output from their establishments of up to the standard of quality flowers.

Why not let us help you increase your Decoration Day sales with their unsurpassed product and our efficient service.

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226 Devonshire Street, BOSTON, MASS.

PHONES 6267, 6268, 5419 MAIN.

THE ECONOMIC STRUCTURE OF THE FLOWER BUSINESS.

A Paper Read Before the New York Florists' Club by A. J. Guttman

(Continued from page 51)

This leads me to another suggestion: that premiums should be more attractive, and that all prize-winners be required to renew the blooms during the whole period of the show. It was positively disgusting to see so many vases of passe blooms. While I was responsible for a number of exhibits, though I did not renew the blooms I fully resolved that another year I shall positively renew the exhibits as often as necessary. The management should not allow blue ribbons to remain attached to stale stock; it is not conducive to enlightening or educating the public, as many people cannot get to the show during the first days. This is not said in spirit of criticism for we all learn by experience and I also belong to that type who are grateful when someone takes the trouble to teach me. We all can learn yet and when a man gets so that he will not accept knowledge he is passe as a useful member of the craft and community.

The flower show management should welcome exhibits, should encourage them by every means and by every

act. If favoritism must be played, well and good. That is up to the management, but no rule should be made that might discourage a prospective exhibitor, and even in some cases exceptions can be wisely made. Red tape is necessary, but often acts as a burden. No matter whether they be growers, seedsmen, wholesalers or retailers, so long as they belong to the profession and have meritorious blooms to exhibit. I do not infer that the management was or is incompetent, but hope they will benefit by past experience and remedy defects, and hope that they will not take exception to suggestions. Great men have continued to learn until the end. Nothing and nobody is perfect. No one man has the only remedy for all ills; we can only hope to be near perfect. Adding our own experience to the knowledge which we gain by reading and learning it is bound to help us; to be valuable to ourselves and to the community.

Another phase that I feel I must touch upon is the question of the distributing of stocks. Taking the whole situation under close consideration, the grower in general is undoubtedly occupying by far the most secure position, due primarily to the fact that he is an artisan and economically speaking a greater producing power than the trader. The trader or merchant, owing to the fact that the average trader is a greatly inferior productive power automatically confusing and discouraging or destroying a possible healthy and scientific working condition, often places the whole trading wing of the craft in a difficult and impractical position. I am thoroughly

convinced that but rarely do we find a talented artisan who is also an able trader. Growing and trading are two quite separate and distinct arts and just as it takes years of experience to learn to combat difficulties that arise in growing flowers and plants so, also, does it require years of experience to combat the various difficulties and problems that arise in the trading of the products. I will cite two items of comparatively recent date—items that give clear opportunity for showing how great a stride can be made toward intelligent and advantageous co-operation. First: I will refer to the congested condition of the market at Easter, 1915, due to the snow storm, and for some time after, when, if all the wholesalers could have agreed by some concerted action to discard the left-over stock thereby bringing the market conditions back to a normal state, there were then abundant evidences of a good market as also right along before Easter. As it was, the market remained paralyzed for a month after that due to the accumulation of stocks. Second: Only recently the retailers emphatically voiced exceptions to the wholesalers selling to other than retail florists and I approved of the stand taken by them. On the other hand it is a fact that very

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May be very much increased by good judgment in selection of supplies. We offer **CREPE FLOWERS**, such as Roses, Wisteria, Carnations, etc.; **MAGNOLIA LEAVES**, green and brown, in cartons and bulk—no torn or mouldy leaves; famous **HIGRADE METAL WREATHS**, home-made, fresh from the factory to you—no shop-worn stock sent out; **CEMETERY VASES** of iron or tin and enamelled tin; **CAPE FLOWERS**, best in the world.

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"HERE COMES THE BRIDE"

FOR THE JUNE WEDDING we have **Lace Bridal Holders, Wedding Cords, Wedding Posts, Wedding Gates, Kneeling Stools, Gauze Chiffons** for Shower Bouquets; **Bridal Scarfs, Resting Baskets, Shepherd's Crooks, Directoire Staffs.**

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Hi-Art Decorative Commencement Baskets and all other accessories. Stock up now and have the goods to show customers. Send for prices and you will be astonished to see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

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few retailers did not then and would not now obtain stocks direct from the grower, thereby automatically and unnecessarily robbing the commission men of what in my opinion are his just commissions. See how inconsistent that is. Under the existing and at times more or less chaotic conditions of the business which imposes a hardship on the commission men to do business on a 15 per cent. basis, to do business in such a way as to bring out the best efforts, is no sinecure, and I feel positive that a large proportion of the commission men, if the truth be known, could testify that it is not possible to earn an income above an amount necessary for a respectable living on a 15 per cent. basis, hardly earning enough that could be considered commensurate with the responsibilities and risks taken and untiring energy put forth in the distributing of the stocks in order to obtain the highest possible market prices. I insist that if the commission men would not use every aggressive method, generally accepted as wise by progressive merchants, they could reduce their selling expenses by selling in bulk often at great sacrifice (selling in bulk when

market is glutted, acts as a great advertising medium) but this method would not always be in line with best endeavor and while the wholesalers may save on the item of selling expenses the consignor will positively be the chief sufferer thereby while some wholesalers may encourage selling to outsiders. I firmly believe that the far-sighted ones—those who are tried and experienced merchants—do not encourage and engage in selling to other than retailers. There should be a greater degree of mutual understanding and confidence among the various groups in our business.

So in closing, I say I thoroughly believe that the three groups—the grower, the wholesaler, and the retailer, could by co-operating materially enhance the whole industry. Each is necessary to the other; each has his special function and is a vital unit in our whole economic structure. Volumes more could be written on the subject but I feel that I have covered a good deal of the ground, while not very thoroughly, still to the extent that my thoughts may inspire our leaders to make an honest effort towards further wholesome progress and in my

opinion this can only be accomplished by approaching and treating each question from the principle of merit.

HAIL STORM IN ST. LOUIS.

There was considerable loss of glass sustained by the South End florists when a sudden hail storm broke out at 5.30 P. M. May 13 and made an almost complete job of it, it being estimated that the loss will average 60 per cent. Among those who lost heavily were F. J. Fillmore, Wm. Schray & Sons, John M. Walther, F. W. Bruenig, W. H. Kruse, Chas. Juengel, John Held and Meurer Bros. Others not quite so heavy were G. B. Windler, A. Meyer, Jr., Fred W. Pape, C. Bergestermann, M. Herzog, Chas. Beyer, H. J. Weber & Sons, John G. Knoll and Fred Loewenan. F. Fillmore, Emil Schray and John Walther, who sustained the greatest loss, say there was no time for sheltering any of the houses, as the storm broke so suddenly, and aside from the loss of glass, considerable damage was done to bedding stock, which was cut to pieces. About 50 per cent. of the glass lost was insured by the Hail Association.

**A Florist's
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HART'S HANDY HANDLE

Fits securely on any standard pot and by the use of a little chiffon or ribbon gives you a Basket effect at a very small additional expense, increasing the price of your plants 100 per cent.

1	12 inches high,	\$2.50 per doz.	4	24 inches high,	\$5.00 per doz.
2	15 " "	3.50 " "	5	30 " "	6.50 " "
3	18 " "	4.00 " "	6	36 " "	9.00 " "

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NEW CROP
DAGGER FERNs

5000 FOR \$10.00

Long Ferns—Extra Fine

THE LEO NIESSEN CO.

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122 West 25th St., New York
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We manufacture all our
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Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON May 18		ST. LOUIS May 8		PHILA. May 19	
Roses						
Am. Beauty, Special	15.00	to 20.00	25.00	to 35.00	20.00	to 25.00
" " Fancy and Extra	10.00	to 15.00	15.00	to 20.00	8.00	to 15.00
" No. 1	1.00	to 6.00	4.00	to 8.00	2.00	to 6.00
Russell, Hadley	2.00	to 12.00	8.00	to 15.00	5.00	to 15.00
Killarney, Richmond, Hillingdon, Ward, Extra	4.00	to 6.00	8.00	to 10.00	5.00	to 8.00
" Ordinary	1.00	to 2.00	4.00	to 6.00	1.00	to 4.00
Arenburg, Radiance, Taft, Key, Extra	4.00	to 6.00	to	to	5.00	to 10.00
" Ordinary	1.00	to 3.00	to	to	1.00	to 4.00
Ophelia, Mock, Sunburst, Extra	4.00	to 8.00	8.00	to 10.00	6.00	to 10.00
" Ordinary	1.00	to 4.00	4.00	to 6.00	2.00	to 5.00
Carnations , Fancy	2.00	to 4.00	4.00	to 5.00	3.00	to 4.00
" Ordinary	1.00	to 2.00	1.00	to 3.00	1.50	to 3.00
Cattleyas	40.00	to 50.00	50.00	to 75.00	50.00	to 60.00
Dendrobium formosum	to	35.00	to	to	to	to
Lilies , Longiflorum	6.00	to 8.00	4.00	to 6.00	6.00	to 8.00
" Rubrum	to	to	4.00	to 6.00	to	to
Callas	7.00	to 8.00	4.00	to 6.00	6.00	to 10.00
Lily of the Valley	9.00	to 5.00	3.00	to 4.00	1.00	to 5.00
Damies	1.00	to 2.00	2.00	to 3.00	.40	to 1.00
Violets	to	to	to	to	to	to
Mignonette	2.00	to 4.00	3.00	to 4.00	2.00	to 3.00
Snapdragon	4.00	to 8.00	3.00	to 5.00	3.00	to 10.00
Daffodils	.25	to 1.00	3.00	to 4.00	to	to
Gladioli	6.00	to 8.00	6.00	to 8.00	2.00	to 8.00
Tulips	75	to 1.00	3.00	to 5.00	2.00	to 3.00
Hyacinths	to	to	3.00	to 4.00	to	to
Freesia	to	to	to	to	to	to
Calendulas	1.00	to 2.00	2.00	to 3.00	2.00	to 3.00
Lilac per bunch	.10	to .15	.25	to .75	.10	to .35
Sweet Peas	.25	to .75	.25	to 1.00	.35	to 1.00
Geraniums	12.00	to 20.00	to	to	2.00	to 15.00
Adiantum	to	1.00	1.00	to 1.25	to	1.00
Smilax	12.00	to 16.00	12.00	to 15.00	20.00	to 25.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	25.00	to 35.00	20.00	to 30.00	25.00	to 50.00

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ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of **CUT FLOWERS**

Flower Market Reports

BOSTON Despite the overhanging skies and inclement weather market conditions have improved considerably over those existing last week. The volume of business has steadily increased and prices have been stiff and unyielding. Carnations, colored varieties only, are a trifle too plentiful but white on the other hand is decidedly scarce. The growers are not holding back for prices are ideal for them and they are taking advantage of the situation. Roses, short grades particularly, are moving rapidly, but Beauties still continue to show the effect of last week's slump. Snapdragon is coming in heavily and much is being thrown away after unsuccessful attempts have been made to sell it. The same is true of sweet peas. The market is literally flooded with them. They are still being shipped in heavily by the growers and there is no relief in sight. Cattleyas are scarcer than usual with the demand running rather high. Both callas and lilies are being disposed of readily at fair prices, and they are practically the only things which have remained in a normal state. The new crop of southern ferns have arrived to relieve the depressing scarcity and are eagerly bought up at \$2.00 a thousand. Taken in its entirety the market has passed through a very favorable state.

Last week was almost a holiday week, considering the volume of business done. On some lines a scarcity was seen. Of course the demand fell toward carnations for Mothers' Day and the buying was brisk especially for white. The supply was very short, which helped the sale of roses and other stock. There was an oversupply of lilies and these had to be forced. Prices were all cut up to move the heavy quantity of lilies received. Peas fell short, and on Saturday night the market was cleaned up on everything.

The opening of the peony season is the important event of the week. A few early ones had straggled in, but May 15 saw the counters of the wholesale houses heaped with the big packages. The warm weather has brought out the stock in southern and central Illinois and prices are from 4 cents to 8 cents, which is not a high beginning. Lilacs are also coming in quantity and there is no fixed price, as each day varies. There has never been a finer lot of snapdragons in this market and the sale is steady. Iris, too, is in good demand and quality very good. Sweet peas are cleaning up well and cover quite a range in price with deep coloring quite marked as bright weather is more general. Of carnations there are none too many when any extra demand comes. Roses are in good crop and quality all that could be desired. Outdoor daffodils and Darwin tulips are still to be had in quantity. White and yellow daisies, always in demand at commencement time, are bringing good returns. A few violets are finding slow sale. Rose Hoosier Beauty is making a fine record.



DAGGER FERNS

Nearby's, superior in every way to imported Ferns, a little more expensive, but cheaper in the end.

\$2.50 per 1000

In lots of 5000, \$2 per 1000

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WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI May 8		CHICAGO May 1		BUFFALO May 8		PITTSBURG May 8	
Roses								
Am. Beauty, Special	35.00	to 40.00	30.00	to 40.00	20.00	to 25.00	30.00	to 25.00
" " Fancy and Extra	25.00	to 30.00	20.00	to 30.00	15.00	to 20.00	10.00	to 15.00
" " No. 1	15.00	to 20.00	10.00	to 15.00	8.00	to 10.00	6.00	to 8.00
Russell, Hadley	8.00	to 15.00	4.00	to 25.00	6.00	to 8.00	4.00	to 12.00
Killarney, Richm'd, Hill'don, Ward	8.00	to 12.00	8.00	to 12.00	4.00	to 6.00	6.00	to 12.00
" " Ord.	4.00	to 6.00	3.00	to 6.00	3.00	to 4.00	.....	to 4.00
Arenburg, Radiance, Taft, Key, Ex.	8.00	to 12.00	8.00	to 12.00	6.00	to 8.00	6.00	to 12.00
" " Ord.	4.00	to 6.00	3.00	to 6.00	3.00	to 4.00	.....	to 4.00
Ophelia, Mock, Sunburst, Extra	8.00	to 12.00	8.00	to 15.00	6.00	to 8.00	6.00	to 12.00
" " Ordinary	4.00	to 6.00	3.00	to 5.00	3.00	to 6.00	.....	to 4.00
Carnations, Fancy	4.00	to 5.00	3.00	to 5.00	2.00	to 3.00	4.00	to 6.00
" " Ordinary	.....	to 3.00	2.00	to 3.00	1.00	to 1.50	2.00	to 3.00
Cattleyas	60.00	to 75.00	50.00	to 75.00	40.00	to 50.00	60.00	to 75.00
Dendrobium formosum	.....	to 10.00	.....	to 10.00	.....	to 10.00	.....	to 10.00
Lilies, Longiflorum	8.00	to 10.00	8.00	to 12.00	6.00	to 10.00	6.00	to 8.00
" " Rubrum	.....	to 8.00	.....	to 12.00	3.00	to 5.00	.....	to 10.00
Callas	6.00	to 8.00	6.00	to 12.00	6.00	to 10.00	8.00	to 10.00
Lily of the Valley	.....	to 5.00	3.00	to 4.00	4.00	to 5.00	4.00	to 5.00
Daisies	.....	to 1.00	1.00	to 2.00	1.00	to 2.00	1.50	to 3.00
Violets	.....	to 1.00	.....	to 1.00	.40	to .50	.....	to .50
Mignonette	.....	to 4.00	4.00	to 6.00	2.00	to 3.00	3.00	to 4.00
Snapdragon	6.00	to 10.00	6.00	to 12.00	3.00	to 6.00	4.00	to 8.00
Daffodils	.....	to 2.00	.....	to 2.00	1.00	to 2.00	2.00	to 3.00
Gladoli	4.00	to 6.00	.....	to 6.00	.....	to 6.00	.....	to 6.00
Tulips	.....	to 3.00	3.00	to 3.00	1.00	to 2.00	.....	to 2.00
Hyacinths	.....	to 2.00	.....	to 2.00	1.00	to 2.00	.....	to 2.00
Freesia	.....	to 2.00	.....	to 2.00	.....	to 2.00	.....	to 2.00
Calendulas	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00	2.00	to 4.00
Lilac (per bunch)	.....	to .25	.....	to .25	.25	to 1.00	.....	to 1.00
Sweet Peas	.35	to .75	.75	to 1.50	.50	to 1.50	.50	to 1.50
Gardenias	.....	to 10.00	.....	to 10.00	10.00	to 25.00	.....	to 25.00
Adiantum	.....	to 1.00	1.00	to 1.50	1.00	to 1.25	1.00	to 1.25
Smilax	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00
Asparagus Plu. & Spreng. (100 Bhs.)	25.00	to 30.00	25.00	to 30.00	40.00	to 50.00	30.00	to 50.00

NEW CROP

CALDWELL THE WOODSMAN CO., - EVERGREEN, ALA.

Taken as a whole Mother's Day business was by far the best this market has had for that day. A heavy demand easily took up the receipts at good prices. Shipping business, particularly in roses and carnations was very large. Quite a number of the carnations, and for that matter some of the other stock, were so badly pickled that they were unfit

FANCY \$1.35 PER 1000
DAGGER \$1.15 PER 1000
GREEN SHEET MOSS FOR HANGING
BASKETS \$1.75 PER BAG
PERPETUATED MOSS \$3.50 PER BAG
HUCKLEBERRY FOLIAGE \$2.50 PER
CASE
LAVATA (Evergreen Oak) \$2.50 PER
CASE

for use. Roses are in a good supply and include some very excellent blooms. Carnations were cut very close for Mothers' Day but by the middle of the week became again plentiful. Lily receipts exceed the demand for them. Sweet peas are very plentiful. Peonies may be had and the supply of both forced and outdoor gladioli is large.

Continued on page 706

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Choice Cut Flowers

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Wholesale Commission

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A full line of Choice Cut Flower Stock for all purposes.

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CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS

	Last Half of Week ending May 13 1916		First Half of Week beginning May 15 1916	
American Beauty, Special	20.00	to 25.00	15.00	to 20.00
" " Fancy and Extra	10.00	to 15.00	6.00	to 10.00
" " No. 1	3.00	to 6.00	1.00	to 3.00
Russell, Hadley	1.00	to 15.00	1.00	to 15.00
Killarney, Richmond, Hillingdon, Ward, Extra	3.00	to 6.00	3.00	to 6.00
" " Ordinary	1.00	to 3.00	1.00	to 3.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 6.00	3.00	to 6.00
" " Ordinary	1.00	to 3.00	1.00	to 3.00
Ophelia, Mock, Sunburst, Extra	3.00	to 6.00	3.00	to 6.00
" " Ordinary	1.00	to 3.00	1.00	to 3.00
Carnations, Fancy	3.00	to 6.00	1.50	to 3.00
" " Ordinary	2.00	to 3.00	1.00	to 2.50

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MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 705)

Last week was one of the most drowsy and lackadaisical the wholesale flower district has experienced in a long time. Of course there was the Mother's Day fuss towards the end of the week, which pretty well toutselled up the carnation end of the business and was the occasion of more or less tumult and not a little acerbity of temper, the net result being a clean-up of white varieties at inflated prices and a redundancy of pink and red ones of questionable age, many of which were left over for garbage purposes Monday morning. There is an enormous overload of Spanish irises, sweet peas, snapdragon, yellow daisies, etc., just at present and the congestion is intensified by the receipt of immense quantities of lilacs, apple blossoms, dogwood and other garden shrub and tree bloom as well as outdoor bulbous flowers, etc. Heavy shipments of peonies arriving from the south and in excellent condition. All these factors have contributed to break the back of the flower market but it will not be for long as the finishing of these spontaneous crops will be sure to leave a keen June market for the choicer goods.

In the rose market the past week the best demand was on the shorter grades and especially so in the white classes. Long-stemmed stock went rather slowly and prices were not as satisfactory as they should have been for fancy quality. There were too many carnations early in the week, but they cleaned up fairly well by Friday and Saturday. There was very little advance in price except on white. Even the white went at regular prices by the high-grade retail stores, as they wished to show their customers they appreciated regular trade. Cattleyas are still bringing fairly good prices and there is enough stock around to satisfy all demands. Lily of the valley of the indoor brand brings the usual figures, although there is a lot of fine outdoor stock at present going for very little. We wonder are those buyers really more of the sheep than we have been imputing to them for all these years. It seems so. Some of that outdoor stock going for a dollar is worth more than the five-dollar indoor. And yet these slaves of habit must pay the five. Sweet peas hold their own very well. Gladioli, indoor and southern, and in "Baby" and "Grandiflora" are now plentiful and good. Snapdragon goes well in the fancy grades, but there is an immense lot of poor stock. Daffodils are nearly over.

Mother's Day is steadily growing in popularity. Last Sunday by far over-reached any previous celebration of the day. Indeed, at least one retail firm finally had to resort to white paper flowers, after disposing of cut blooms of all varie-

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STRAIGHT WHOLESALE ONLY

FRANK MILLANG

CUT FLOWERS

55-57 W. 26th St., NEW YORK
NO DESIGNS MADE UP

We are WHOLESALE FLORISTS

We handle every variety of cut flowers. We have 22 years' experience behind us, and we do not expect a gold medal for doing our full duty by our consignors and customers. You cannot go very far wrong when dealing with us.

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STORE OPEN FOR BUSINESS AT 6 A.M.

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MISCELLANEOUS

	Last Half of Week ending May 13 1916	First Half of Week beginning May 15 1916
Cattleyas	40.00 to 75.00	25.00 to 75.00
Dendrobium formosum	20.00 to 35.00	20.00 to 35.00
Lilies, Longiflorum	3.00 to 5.00	3.00 to 5.00
Rubrum	1.00 to 1.00	1.00 to 1.00
Callas	4.00 to 6.00	4.00 to 6.00
Lily of the Valley	2.00 to 5.00	1.00 to 5.00
Daisies	.50 to 1.00	.50 to 1.00
Violets	1.00 to 1.00	1.00 to 1.00
Mignonette	2.00 to 3.00	2.00 to 3.00
Snapdragon	2.00 to 8.00	2.00 to 8.00
Daffodils	.50 to 1.00	.50 to 1.00
Gladioli	4.00 to 1.00	4.00 to 6.00
Tulips	1.00 to 2.00	1.00 to 2.00
Hyacinths	1.00 to 2.00	1.00 to 2.00
Freesia	1.00 to 2.00	1.00 to 2.00
Calendulas	1.00 to 1.00	1.00 to 1.00
Lilac (per bunch)	.05 to .10	.05 to .10
Sweet Peas	.25 to .75	.13 to .75
Gardenias	8.00 to 15.00	8.00 to 15.00
Adiantum	.90 to 1.00	.50 to 1.00
Smilax	18.00 to 20.00	12.00 to 20.00
Asparagus Plumosus, & Spreng (100 bunches)	15.00 to 25.00	15.00 to 25.00

I Can Sell Them For You!

I have an unlimited market for your flowers, any variety, in any quantity. Prompt returns of sales on consigned goods. Ready cash when due. A clean record of twenty-eight years in the Cut Flower Commission Business.

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Asparagus Plumosus Nannus Seeds.
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Asparagus Plumosus Seedlings, \$5.00 per 1000. Ready May 1st. COLLINGDALE GREENHOUSES, Collingdale, Pa.

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Lorraine, 2 1/2 in. pots, \$12.00 per 100; Cincinnati, 2 1/2 in. pots, \$15.00 per 100; Mrs. J. A. Peterson, New York, 2 1/2 in. pots, \$25.00 per 100; \$200.00 per 1000.
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Split carnations quickly, easily and cheaply mended Pillsbury's Carnation Staple, 1000 for \$25; 2000 for \$1.00 post paid. I. L. PILLSBURY, Galeburg, Ill.

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Newest list of the newest Cannas just out. Complete assortment of the finest sorts, at remarkable rates.

Send for list today.

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Alex Guttman, also Emma, a Garza

Anemone, Double Pompon,

pale pink.

CYCLAMEN

CYCLAMEN. Best strain. Separate colors or mixed, 3 in. pots, \$8.00 per 100, for May delivery.

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NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

IF YOU INTEND growing Dahlias for cut flowers then you will make no mistake if you will try my assortment, especially selected for cut flower production. Three whites, 3 pinks, 1 red, 1 yellow, 1 lavender, 1 fancy; all field roots, labeled true to name; per 100, 10 of each kind, \$30.00; per 1000, 100 of each kind, \$25.00. 50 at 100 and 500 at 1000 rates. Cash with order. Guarantee entire satisfaction. If interested in Dahlias, then please send for my wholesale trade list of Dahlias.

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ORCHID PLANTS

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Leopold Cousins, Jr., Concord Junction, Mass.
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PANSY PLANTS

500,000 PANSIES.

Full of color. In the best of Mixed Colors.

There is no better stock for commercial purposes than the "Superb" Pansies, grown from seed of my own raising, and the result of over 20 years' careful breeding. Send a trial order and be convinced. Fine large plants, \$1.25 per 100, \$10.00 per 1000. Some extra large plants, \$15.00 per 1000. Largest Grower of Pansies for the Trade in the United States. Cash with order. By express only.

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Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

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"Riverton Special."

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Rose Prima Donna (Mme. Paul Euler).

THE CONARD & JONES COMPANY.
Rose Specialists.
West Grove, Pa. Send for offers.

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SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
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S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
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W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
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Jas. Vick's Sons, Rochester, N. Y.
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August Rolker & Sons, New York City.
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Burnett Bros., 98 Chambers St., New York.
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Leonard Seed Co., Chicago, Ill.
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Thomas J. Grey Co., Boston, Mass.
Mignonette, Improved Eclipse.
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Fottler, Fiske, Rawson Co., Boston, Mass.
Seeds for the Florist.

SPHAGNUM MOSS

New England Florist Supply Co.,
Boston, Mass.
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Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

SHELF BRACKETS

Metropolitan Material Co., Brooklyn, N. Y.
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SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.
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TREE SURGERY

The Davey Tree Expert Co., Kent, Ohio.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
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VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
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Celery Plants: Golden Self-Blanching
(French strain); fine plants, ready now;
\$2.00 per 1000. Cash. Special prices on
large lots. BRILL CELERY GARDENS,
Kalamazoo, Mich.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
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The John A. Evans Co., Richmond, Ind.
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VERMICIDES

Aphine Mfg. Co., Madison, N. J.
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VINCAS

13,000 Vincas Var., out of 4 inch pots,
\$12.50 per 100. Cash please. LEONARD
COUSINS, JR., Concord Junction, Mass.

WEED KILLER

Pino-Lyptol Chemical Co., New York City.
Pino-Lyptol Weed Killer.
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WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
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WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
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WIREWORK

Reed & Keller, New York City.
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WILLIAM E. HEILSCHER'S WIRE
WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
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Baltimore

The S. S. Pennock-Meehan Co., Franklin
and St. Paul Sts.
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Boston

Welch Bros. Co., 226 Devonshire St.
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Patrick Welch, 262 Devonshire St.
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WHOLESALE FLORISTS
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Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
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Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
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J. A. Budlong, 184 North Wabash Ave.
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Detroit

Michigan Cut Flower Exchange, 264-266
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H. E. Froment, 148 W. 28th St.
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James McManus, 105 W. 28th St.
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W. F. Sheridan, 133 W. 28th St.
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P. J. Smith, 131 West 28th St.
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Moore, Hentz & Nash, 55 and 57 W. 26th St.
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Charles Millang, 55 and 57 West 26th St.
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W. P. Ford, 107 W. 28th St.
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J. K. Allen, 118 West 28th St.
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The S. S. Pennock-Meehan Co., 117 West
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Traendly & Schenck, 436 6th Ave., between
26th and 27th Sts.
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Badgley & Bishop, Inc., 34 West 28th St.
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Woodrow & Marketos, 37 and 39 W. 28th St.
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Riedel & Meyer, Inc., 49 West 28th St.
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George C. Siebrecht, 109 W. 28th St.
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John Young & Co., 53 West 28th St.
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M. C. Ford, 121 West 28th St.
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Gunther Bros., 110 West 28th St.
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Henry M. Robinson Co., 55-57 W. 28th St.
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W. R. Siebrecht, 114 West 28th St.
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Herman Weiss, 106 West 28th St.
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J. J. Conn, 115 West 28th St.
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WHOLESALE FLORISTS
Philadelphia

Leo. Niessen Co., 12th and Race Sts.
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Edward Reid, 1619-21 Ranstead St.
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The S. S. Pennock-Meehan Co., 1608-20
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E. G. Hill Co.
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Rochester, N. Y.

George B. Hart, 21 Stone St.
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Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
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New Offers In This Issue**BEGONIAS AND CYCLAMEN.**

Julius Roehrs Co., Rutherford, N. J.
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CUT FLOWERS, WHOLESALE ONLY.

Frank Millang, 55-57 West 26th St.,
New York City.

CUT FLOWERS FOR MEMORIAL DAY.

Patrick Welch, Boston, Mass.
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CUT FLOWERS FOR MEMORIAL DAY.

B. A. Snyder Co., Boston, Mass.
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DAGGER FERNS.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
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DECORATION DAY FLOWERS AND SUPPLIES.

Welch Bros. Co., Boston, Mass.
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HARDY PERENNIALS.

Mitchell's Seed House, Philadelphia, Pa.
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HYDRANGEAS FOR SUMMER BLOOMING.

F. R. Pierson Co., Tarrytown, N. Y.
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JAPAN LILIES.

Arthur T. Boddington Co., Inc.,
New York City.
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MEMORIAL DAY SUPPLIES.

H. Bayersdorfer & Co., Philadelphia, Pa.
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NEW CROP DAGGER FERNS.

H. M. Robinson & Co., Boston, Mass.
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NEW CROP DAGGER FERNS.

The Leo Niessen Co., Philadelphia, Pa.
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PALMS, DECORATIVE AND BEDDING PLANTS.

A. Leuthy Co., Roslindale, Mass.
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THE NUT-GROWER

The unique monthly publication which furnishes reliable and interesting up-to-date information regarding the value of pecans and other edible nuts and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as two words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 147 Summer St., Boston.

MISCELLANEOUS

WANTED TO RENT, with privilege of buying, 10,000 to 20,000 ft. of glass with dwelling house. Massachusetts state preferred. State full particulars in first letter. Address "T," care HORTICULTURE.

Obituary

Jose Krug.

Jose Krug, florist at Alton, Ill., aged 80 years, died on Tuesday, May 9. The funeral took place from his late home in Alton on May 11. Mr. Krug was well known in local trade circles and in St. Louis, where he was a regular buyer in the flower market and was greatly loved and respected.

J. Gurney Fowler.

J. Gurney Fowler died at Brackenhurst, Pembury, Eng., on April 27, after a few days' illness, in the prime of life. He was a member of the Council and treasurer of the Royal Horticultural Society and chairman of its orchid committee.

The latest meeting of the Connecticut Horticultural Society turned out to be a first-class exhibition of spring flowers. The judges awarded a first-class certificate and special mention to J. F. Huss for specimen hydrangeas and polyanthus primroses; also a first-class certificate to W. S. Mason for primroses. Mr. Huss among other things stated that the winter had been especially hard on all kinds of shrubs. The California privet hedge that surrounds the Goodwin estate has been killed in many places, which to say the least is very discouraging after years of laborious work in trimming and culture to its present excellent growth. Next meeting will be Tulip night. ALFRED DIXON, Secretary.

In writing to Advertisers kindly mention Horticulture

NEWS ITEMS FROM EVERYWHERE

BOSTON.

Walter Moore, of Sears & Roebuck, Lowell, is planning to take a number of his Boston friends on a weekend fishing trip.

A fine group of late friends was added to the exhibit at the May Flower Show on the second day by Julius Roehrs Company, Rutherford, N. J. It had been delayed in transit.

The Gardeners' and Florists' Club enjoyed a memorable outing on Monday, May 15, when they visited the estate of Gen. S. M. Weld at Dedham and were hospitably entertained.

Henry M. Robinson has returned from his extended southern tour, and in direct contrast to the weather which we have been having here he reports an average temperature of 90 degrees during his entire trip.

An exceptionally novel feature may be seen in Henry Penn's show windows in the shape of flower-trimmed hats. A black straw model trimmed with cattleyas and maiden hair is attracting special attention.

Victor Hartford was ill the earlier part of the week with a severe cold which threatened to develop into pneumonia. The crisis has been averted, however, and Mr. Hartford will resume his duties the first of next week.

David and Edward Welch, of Welch Bros. Co., are making extraordinary preparations for the Decoration Day rush, and with increasing shipments and every facility to handle a large business, are anticipating one of the busiest weeks of the year.

Darwin tulips are rapidly forging ahead in popularity in this market. A big advance in their relative position among the favorite forcing bulbs is noted by Patrick Welch, who has been giving them a special push. These richly colored flowers, with American Beauty roses, peonies and astilbes, will be among his leaders for Memorial Day.

Elliott Filson, the popular Waltham boy who sells Peirce Bros.' stock in the market was married on last Tuesday night to Miss Harriet Carter, also of Waltham. The ceremony took place at the bride's residence where Sam. Beck had charge of the decorations, the profusion of which elicited much praise. Mr. Filson's brother salesman presented him with a complete set of electrical household appliances, and he also received gifts from many local firms. They will spend a week among the Berkshires.

WASHINGTON, D. C.

Adolph Gude has been honored by unanimous election as president of the Anacostia Bank.

The Harrisii lily crop this year was a pronounced success and as a result Gude Bros. Co. are going into their production for next Easter heavier than ever. They have already placed pretty heavy orders for bulbs.

A large King snake became excited last week and sunk its fangs into the left hand of Fred H. Kramer, while the latter was practicing a new act in which the reptile and several of its brothers were to play an important

part at an entertainment of the Slaves.

Elaborate preparations are being made for the outing of the Florists' Club. The committee in charge is headed by Capt. William H. Ernest, as chairman, Harry B. Lewis, George H. Cooke, George C. Shafter, Edward S. Schmidt, William Marche and O. A. C. Behnler.

The Civil Service Commission has announced that an examination will be held early next month in Alexandria, Va., to secure eligibles for appointment as specialist in insects as carriers of plant diseases. Further information can be secured upon application to the Commission.

CHICAGO.

The peony season is again open.

Chas. McKellar is said to be convalescing from his recent severe illness.

Mothers' Day is one occasion in which the plant sales do not nearly approach the flower sales, and the artificial flowers have as yet no foothold.

John Poehlmann was able to visit the store last week, where he found everyone on the jump filling orders. Mr. Poehlmann has been ill for some time and his presence was most welcome.

The store at 52 East Monroe street, which is just round the corner from the present location, has been secured by George Weinbecker for August 1 and will be made a part of the present store at that time.

Local papers are announcing the engagement of A. Miller and Miss Dorothy Frankel, of Chicago. A. Miller is a member of the firm of A. Henderson Co., seedsmen, and is well known to the trade. The young lady is reputed to be one of Chicago's prettiest girls.

Mothers' Day made a good record in Chicago. The optimistic see in it the promise of a day that shall rank with Christmas and Easter in the florists' holidays. It was far ahead of any other Mothers' Day and that with the handicap of a rain storm for hours. The orders from the first called for a large quantity of carnations, but there was little difficulty in securing a change to roses, which were no dearer than carnations.

An event of importance called the wholesalers together this morning (May 16). A strike of the drivers of the express companies throughout the city went into effect at that time, working havoc with the handling of perishable goods and crippling the florists' shipping trade. The vacant store in the Le Moyne block was soon filled with an anxious group, from which a committee was appointed to see what could be done. Fred Lautenschlager, who brought about the settlement in a similar case a few years ago, and Mr. Kroeschell, were delegated to wait upon the express company and report to the committee. As generally understood, the question is not one of wages, but of recognition of the union as such.

PITTSBURGH.

George Marshall, of the McCallum Company, has been confined at home with illness this week.

Mr. and Mrs. T. P. Langhans with their son and daughter are taking an eastern automobile trip.

The Victoria Flower Shop owned by A. Krongold is now located opposite the William Penn Hotel.

Accompanied by their family Mr. and Mrs. Ernest C. Ludwig left on last Tuesday morning to spend the summer at their farm. DeForrest W. Ludwig has returned from North Carolina much improved in health.

Mrs. William Thaw, whose summer home is at Cresson in the Allegheny Mountains, has offered five prizes of \$10 each and five prizes of \$5 each for the best kept lawns and yards in Cresson during the season.

The local Daughters of the Confederacy co-operated with the Civic Club's Vacant Lot Committee by arranging to furnish flowers to be distributed in the city hospitals. Their only stipulation is that preference be given to southern flowers.

The Audobon Society, of Western Penna., has purchased trees to supply the members and others desiring to provide natural food for birds. Recently State Game Commissioner John M. Phillips, who was active in its formation personally purchased 500 mulberry trees, which he presented to 2,000 Boy Scouts for distribution throughout Allegheny County.

Experiments are being conducted by the Fayette County Farm Bureau on the farm of Charles M. Steele in land fertilizing with a view of perfecting the cultivation of blue grass. Previous to the advent of coke works in that section the soil was admirably adapted to blue grass, but the sulphur smoke has practically killed the product. The next project of this bureau will be corn variety tests.

Since the Easter flower shows attention has been directed to the magnificent display in the conservatories and on the grounds of Richard Beatty Mellon. Prominent among the attractions is the formal Italian Garden, which, under the supervision of Ernest Guter, is a vision of loveliness. This was recently carried out with hyacinths, tulips and scillas. Mr. Guter has recently lowered and remodeled the vegetable garden and is about to begin remodeling the rock garden. Another splendid private tulip collection was seen on the Charles D. Armstrong grounds on Lexington avenue. Thomas Edward Tyler, head gardener, had about 60,000 bulbs, making a gorgeous display. In the greenhouse were seen about 500 orchid seedlings.

NEW YORK.

George W. Crawbuck, late manager of the Greater New York Florists' Association, has leased half of C. C. Trepel's wholesale store at 57 W. 28th street, and will go into business on his own account.

Walter R. Siebrecht, wholesale flor-

PINO-LYPTOL

WEED KILLER

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

P.-L. CHEMICAL CO., 507-509 W. 19th St., New York

CORRESPONDENCE SOLICITED.

BOSTON MAY FLOWER SHOW.



Exhibit of Floral Baskets by Penn The Florist.

ist, has been confined at home for the past two weeks suffering from a severe attack of rheumatism.

PHILADELPHIA.

Mrs. Albert M. Herr and Mrs. Brown of Lancaster, Pa., visited our annual society event, the "Flower Market" in Rittenhouse Square on the 17th. They were after pointers. Lancaster means to go Philadelphia one better.

There will be a flower show at Lansdowne Saturday, June 3rd, in Century Hall, opening at 2 P. M. Samuel S. Pennock, president of the American Rose Society, lives in Lansdowne and will do his share as an exhibitor. He has a very complete rose garden, full of rare varieties from all over the world, and is always glad to show his neighbors anything in season. He wants all readers of HORTICULTURE to come out to the exhibition and enjoy themselves and help to spread the enthusiasm.

FLOWERS ARE LOVED FOR THEIR OWN SAKES.

Every month in the year they rise up amongst us in a new dress, calling forth admiration, love and praise. They are the pride of the rich and the joy of the poor.

Some of the old flowers, such as the Marigold and Sweet Williams, are like the old-fashioned old gentleman, and the Red Clovers and Buttercups, of which there are ten times more than we need, are like the roguish little children, of which we never have enough to play among them.

The Poppies and Morning Glories are the debutantes in the glow of young womanhood. How your mother always loved Roses and Sweet Peas and Honeysuckle! Don't you remember?

The rich have paintings and books and rare gems.

The poor have few things and little to get them with. If there were no flowers they would be largely shut off from the

exquisite pleasure of graceful shapes, colors and perfumes.

They are messages of affection. They constitute tokens of remembrances and brotherhood and sisterhood of the human race.

LET US HELP THOSE GOOD WOMEN.

Wednesday, May 17th, in their noble work for the sick children of the city through their

ANNUAL FLOWER MARKET IN RITTENHOUSE SQUARE.

Every penny spent for flowers goes directly in caring for sick children, according to the declaration of its managers.

(Signed) JOHN WANAMAKER.

John says things better than them all even if its only in an ad. He chose to achieve fame as a great merchant. He could have done the same thing had he started out to be a great author.

VISITORS' REGISTER.

St. Louis, Mo.—J. J. Karins, repr. H. A. Dreer, Philadelphia.

Cincinnati—Paul Berkowitz, of H. Bayersdorfer & Co., Philadelphia.

Boston—Theodore Outerbridge, Sunnyslands, Bermuda; W. A. Manda, South Orange, N. J.

Philadelphia—Stephen Mortensen, Southampton, Pa.; W. C. Langbridge, Cambridge, N. Y.; Mrs. Albert M. Herr and Mrs. Brown, Lancaster, Pa.

New York—Theodore Outerbridge, Sunnyslands, Bermuda; Douglas A. Brown, Cincinnati, O.; W. C. Langbridge, Cambridge, N. Y.; Henry M. Robinson, Boston.

Chicago: A. J. Riggs, De Kalb, Ill.; Alois Frey, Crown Point, Ind.; Oswald

Aphine
The Insecticide that kills plant Lice of many species

The Recognized Standard Insecticide. A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SCALINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.

IMP. SOAP SPRAY

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON



NIKOTEEN

For Spraying

APHIS PUNK

For Fumigating

Ask Your Dealer For It.

NICOTINE MFG. CO.
ST. LOUIS

John, with W. A. Manda, Inc., S. Orange, N. J.; Otto Ackerman, Columbus, Ohio; Alfred Forder, Cincinnati, Ohio; J. A. Valentine, Denver, Colo.; E. D. Erickson, Glen Ellyn, Ill.

Washington, D. C.: W. F. Kasting, Buffalo, N. Y.; August Bindeman, Elyria, Ohio; D. T. Connor, repr. Lord & Burnham Co., Phila.; A. B. Morris, Jr., repr. Lazear & Co., Phila.; representatives of M. Koster Sons and J. Dykhuis, Boskoop, Holland; Theo. Outerbridge, Bermuda; T. P. Langhans, Pittsburgh, Pa.

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.**KING CONSTRUCTION COMPANY, North Tonawanda, N. Y.****GREENHOUSES****We Claim Maximum Strength and Minimum Shadow. Investigate****Flower Market Reports**

ties and colors until there was a complete exhaustion of the stock in trade. Of carnations the demand far exceeded the supply, other flowers, in turn, falling in line, according to popularity. Carnations, which sold from 25 to 35 cents apiece, are now retailing at 50 cents a dozen. Other flowers remain about the same. At time of writing, there is some scarcity of all varieties with the exception of roses, including American Beauties, and sweet peas.

There was and is plenty of stock of good quality at the wholesale market. On "Mothers' Day," May 13, carnations cleaned up well at still prices, whites bringing from 5 to 8 cents. In other stocks the market had a great supply, with very low prices. Lilies and callas drag and can be bought as low as \$3 per 100. Sweet peas are hard to dispose of at any price. Outdoor lily of the valley, peonies, daisies, snapdragon, cape Jasmine and miniature gladioli are all quoted very low. All greens are selling well, especially asparagus.

The Mother's Day business in this market was very good and white roses as well as white carnations sold well. As in former years, the stock of carnations soon became exhausted. The price was \$8 per hundred and the quality of the flowers was very good. Peonies are in and sell well because of their recent arrival. Violets are off the market. Sweet peas are not in the heavy supply noticeable last week. American Beauty roses are still very plentiful and low in price. Gardenias are in heavy supply and are being sold on the streets in profusion. Orchids continue scarce, with very high prices prevailing. Dogwood is to be had in huge quantities, and snowballs and fruit blossoms are offered in the market places. Greens are quite short in supply. Scarcity of lily of the valley is again reported, although outdoor stock is helping.

**STANDARD FLOWER
POTS**

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts., Washington, D. C.

**GREENHOUSES BUILDING OR CON-
TEMPLATED.**

Houston, Tex. Edward Teas, one house.

Providence, R. I.—Swanson Bros., one house.

Atkinson, N. H. Harry B. Tuttle, one house.

Cherokee, Ill.—Palmer Greenhouses, rebuilding.

Auburn, Me. A. Sherman & Sons, house 35 x 100.

Akron, O.—North Hill Greenhouses, house 30 x 100.

Hudson, Mass.—O. C. Day, High street, additions.

Atchison, Kan.—Howe Bros., Potato Hill, vegetable house.

Fremont, Neb.—Green's Greenhouses, addition 32 x 80.

Bexley, O.—S. S. Myers, three Moninger houses, each 30 x 125.

Chicago, Ill.—Emil Jehlik, 1825 S. Ashland avenue, one house.

Cicero, Ill.—J. J. Kolar & Son, Dietsch conservatory 25 x 40.

Kansas City, Mo.—Stockdale Greenhouses, 2804 North 18th street.

Wheeling, W. Va.—Cameron Greenhouse Co., East End, additions.

Lenox, Mass. F. Augustus Schermerhorn, Pine Croft, three houses.

New York, N. Y. Benjamin Blaine, 2074 Arthur avenue, house 16 x 97.

West Newton, Mass.—Henry D. Woods, Highland street, one house.

Memphis, Tenn.—Johnson & Co., two houses, each 35 x 125; four houses, each 20 x 75.

Aberdeen, S. D.—Benjamin F. Siebrecht, three houses, each 22 x 150; one house 20 x 150.

Hartford, Ct.—Robert Marchant & Sons, 13 Huntington avenue, two Lord & Burnham houses.

PATENTS GRANTED.

1,181,281. Grass-Cutter. John Albert, Missoula, Mont.

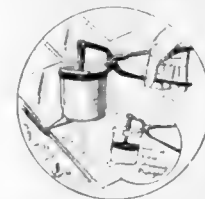
1,181,308. Weeding-Hoe. William Milton Harwell, Columbiana, Ala.

BUSINESS TROUBLES.

Memphis, Tenn.—Holly & Malone, florists, S. Dudley street, voluntary petition in bankruptcy; assets, \$1,302; liabilities, \$3,328.45.

MASTICAFor Greenhouse
Glazing
USE IT NOW**F. O. PIERCE CO.**
12 W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



Will last a life-time.

\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

Seal-tight liquid putty at \$1.25 per gallon.

METROPOLITAN MATERIAL CO.
1392-1414 Metropolitan Ave., Brooklyn, N. Y.**DREER'S**Florist Specialties,
New Brand, New Style,
Hose "RIVERTON"

Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST
3/4-inch, per ft., 15 c.
Reel of 500 ft., " 14 3/4 c.
2 Reels, 1000 ft., " 14 c.
1/2-inch, " 13 c.
Reels, 500 ft., " 12 3/4 c.

Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.**NON-KINK WOVEN HOSE**

In all lengths. 14c per foot. With couplings. Unequaled at the price. Remnants shorter than 25 feet 10c per foot, coupled.

METROPOLITAN MATERIAL CO.
1392-1414 Metropolitan Ave., Brooklyn, N. Y.**THE FLORISTS' HAIL ASSOCIATION**

Is a mutual organization, insuring greenhouse glass against hail. Both commercial and private establishments are accepted. For particulars, address

John G. Esler, Jr., Saddle River, N. J.
Insure Now.

FOLEY MATERIALS

ARE THE BEST FOR
Iron Frame, Pipe Frame or Wood Frame
GREENHOUSES

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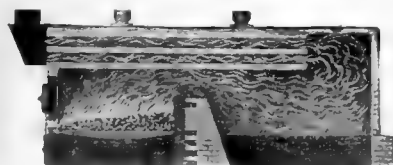
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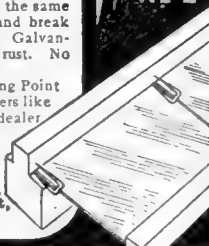
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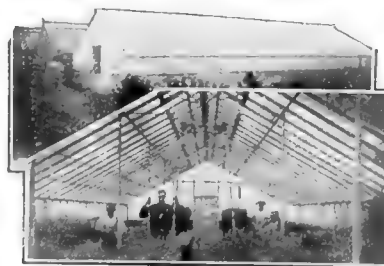
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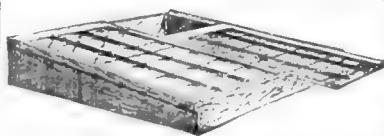
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Vol. XXIII
No. 22
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NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—Pope.

Care of Begonias

For strong plants in 4 or 5-inch pots there is no better place than a mild hotbed that has 4 or 5 inches of ashes or soil over the manure. In this plunge the pots up to their rims, and they will make good headway and can be hardened off without any check. They should stay here until the first half of June because about the end of May we are liable to get a few nights at such a low temperature that will make them look sick for weeks. Bedding begonias such as Vernon or Erfordii that are pot bound should be given a shift, using a rich porous soil. This will prevent them from becoming stunted before planting time. Begonias of the tuberous rooted sorts intended for bedding out should be given plenty of room between them to spread out.

Dracaena indivisa

This stock needs a house a little closer and warmer than an ordinary house. They should never go lower than 60 degrees during the night. Plants that are over a year old can be planted outside in June where they will grow and make fine plants by September which can be potted and grown on for next spring's sales. Plants that were raised from seed sown soon after the New Year should be ready now to go into 3-inch pots. Keep them inside and give them a compost of turfy loam three parts, well-decayed cow manure one part, with a liberal sprinkling of sharp sand. Drain the pots with crocks and when they have filled the pots with roots they will want copious waterings. It is most essential to give them a good syringing every morning during the summer.

Increasing Ficus by Mossing

This is a very good month to perform the operation of mossing on these plants. Select about 6 or 8 inches of the leafy tops and cut them about half way through, then split the stem about half an inch upward inserting something to keep the split open, such as a match or piece of gravel. Cover the cut so the whole will be enveloped with sphagnum moss. Put enough sphagnum around so as to form a ball from 2 to 2½ inches in diameter. In about six or eight weeks they will be fit to cut off and pot. Keep the moss always moist by frequent light syringing and see that the plants are kept rather on the dry side at the roots. Place them in the warmest house and at some end where they can have abundant atmospheric moisture all the time. It is a good plan to take

all the lanky and unsalable plants and work them up into salable stock by this mode. When rooted they should be potted and kept growing right along.

Nerines

When all the foliage assumes a golden hue the pots should be laid on their sides on a sunny bank or high piece of ground where they will not be likely to get much water. When the foliage of nerines begins to turn yellow it shows that they are finishing up their growth. They can be given this treatment until the middle of September when they should be moved into a frame or cool greenhouse. After they have had their rest and begin to make fair growth they will take an abundance of water with overhead syringing. When the flower scapes make their appearance, remove about an inch of the surface from the pots and give a top dressing of rich compost. Give an application of liquid manure once a week. To be successful with nerines you should syringe so as to keep their foliage free from insects and healthy, until leaf-growth is complete. They do well in an ordinary greenhouse that runs from 55 to 60 at night.

Palms

If there are large palms that need repotting this is an excellent time to do this work, as nearly all the palms and other decorative stock make a heavy growth during the summer and the more they are encouraged the better. If larger pots are not required remove some of the old soil from the roots and replace with a fresh compost of fibrous loam three parts, well-rotted cow manure one part, and about a 5-inch pot of bone meal to a barrow load. Select some of the tougher leaved kinds and stand them outdoors. If rains have washed off considerable of the shading applied to the glass some time ago it will be necessary to use some more whitening on the roof as many palms are quite easily scorched. Air freely, now that the days are so warm, and keep plenty of moisture in the atmosphere. A couple of hoses overhead on clear days should also be given with a carefully directed pressure, which will not only keep them clean but make them grow better.

Vincas for Next Year

Vinca cuttings rooted during the winter should now be planted outside in the field. Give them a piece of fairly rich ground and keep them cultivated and hoed and they will not be any further trouble until lifted and potted up in the fall.

Next Week:—Bouvardias; Young Primulas; Ericas; Feeding Orchids; Hydrangeas for Next Year; Start Cultivation

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HORTICULTURE

VOL. XXIII

MAY 27, 1916

NO. 22

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Memorial Day

Next Tuesday is Memorial Day. In a thousand cemeteries tombstones will be garlanded and grassy mounds strewn with flowers in loving remembrance of dear ones gone. This beautiful custom of placing the flowers of spring-time on the graves of fallen heroes and departed friends is something that will never pass away so long as the human race remains. Artificial flowers and other expedients may have a little run here and there, because of the expense or the fleeting character of fresh material, but it will be for a brief period only and the natural

flower will again come into its own. This year we hear much of a scarcity of flowers in some markets to supply the Memorial Day demand. We hope there will be no such thing. An adequate supply of flowers at such a time will be a very timely accompanying advance in prices is a menace to the florist business, a prolific source of resentment, distrust and aversion for the florist, which far outweighs any apparent advance accruing from the enhanced prices made possible by a short supply. So we hope there will be an abundance of good flowers, that normal prices will prevail everywhere and that the great floral holiday of 1916 will pass into history as "the best ever" for each and every reader of HORTICULTURE.

The flower show fever

The Flower Show outlook for next spring seems quite promising. Three big exhibitions, to be held in Boston, New York and St. Louis, respectively, are already fixed for March, and there are others as yet in embryo. Under the requirements now essential for the successful conduct of a public exhibition, one year in advance is not any too soon to begin work. That this is generally realized is shown in the preparatory steps already taken in the three cities aforesaid. Boston's preliminary schedule of prizes (March 21-25, 1917) is already printed and distributed. Cards bearing the legend "St. Louis 1917 Spring Flower Show (March 15-18, 1917)—Be a Booster—Visit us in 1917—We Want You"—have been sent out far and wide. As mentioned in our news columns this week, Cleveland which has the exhibition fever ever since last fall's happy event, is in the ring for a September blow-out under the guidance of the same hustlers who managed things so well last year. All will find a wide field for the exercise of aggressive executive ability, for the old-style show has no chance whatever, and it is equally certain that even a modern show, however deserving in itself, will lose, out unless energetically exploited according to modern publicity methods.

A questionable project

We wonder how much money the S. A. F. will be able to gather in for that present to Miss Jarvis. The S. A. F. has had on its hands for several years the matter of a testimonial of more commendable character and nobler purpose which might well have been completed before plunging into this hasty scheme, the propriety and decency of which, from the Society's standpoint is seriously questioned by many of its members. We have received a number of letters approving of our views on this "Mothers' Day" subject as expressed editorially in a recent issue of HORTICULTURE. One of these communications is from the President of the American Carnation Society, which we take the liberty of quoting from, as follows:

My Dear Mr. Stewart:

I do want to congratulate you on the timely editorials in reference to the Mothers' Day fund, especially the one in the issue of HORTICULTURE under date of May 13th.

I fully agree with you that speaking from strictly a commercial standpoint it's a mistake to promote any special days for the use of flowers, and furthermore I consider it very inappropriate for any line of business to ever try to commercialize that which we should revere.

I sometimes think it's no wonder old Europe often looks upon us Americans as being money mad. I regret very much that as an official of the American Carnation Society I must send out an appeal for this fund, but this was agreed upon by the Executive Board at Philadelphia in my absence and officially we must sometimes do that which we would not do individually.

Very truly yours,

J. F. AMMANN.

THE IRIS IN CALIFORNIA.

Having spent the winter in California, of course I was on the watch for the most successful all-around flowers.

There are frosts in winter even in that Land of the Sun. The Exposition continues another year in San Diego, and it may be perpetual, as they have very fine buildings and their grounds are a dream of beauty. We stopped at the Knickerbocker Hotel which is in the center of the car system. It is a homelike place and the proprietor went with us, pointed out the car we needed for any part of the city. I was looking for a flower which would be in bloom all the year. I found beautiful iris in flower on the ground in December.

After I went to the justly famous Iris Gardens of Moneta, California, I found that there were iris blooms every day in the year. Remember the iris is one of the largest flower families. There are over 170 distinct varieties besides the rare new crosses. Mrs. Dean, the proprietor, is about the best informed person in America on this flower. She has Dykes' colossal work which cost \$35.00, also every book she could hear of on this flower. Some of the newer sorts are superb and defy description. Macrantha or Amas from Asia Minor has immense radiant petals broad as a lady's hand. Monsignor is a new one from France with a wonderful blend of violet and purple. Dorothea is a beauty of the dwarf variety of a lovely smiling and open face. Mesopotamia is a glorious Amazon, a queen among the rest, four feet tall and a splendor. Sheffield Giant is a wonder. Mrs. Dean assisted in the last edition of the Iris Manual, spending much time in classifying and describing the various kinds. The iris is the best drouth resistant we have, marvelously adapted to all the semi-arid regions.

York, Neb.

C. S. HARRISON.

IN LILAC TIME.

Go down to Kew in lilac-time, in lilac time,
in lilac time;
Go down to Kew in lilac time (it isn't far
from London!)
And you shall wander hand in hand with
love in summer's wonderland;
Go down to Kew in lilac time (it isn't far
from London!)

The cherry trees are seas of bloom and soft
perfume and sweet perfume,
The cherry trees are seas of bloom (and oh, so
near to London!)
And there they say, when dawn is high and
all the world's a blaze of sky,
The cuckoo, though he's very shy, will sing
a song for London.

The nightingale is rather rare and yet they
say you'll hear him there
At Kew, at Kew in lilac-time (and oh, so
near to London!)
The linnet and the thristle, too, and after
dark the long hallow
And golden eyed 'tuhwit, tu whoo' of owls
that ogle London.

Nor Noah hardly knew a bird of any kind
that isn't heard
At Kew, at Kew in lilac time (and oh, so
near to London!)
And when the rose begins to pout and all
the chestnuts spires are out
You'll hear the rest without a doubt, all
chorusing for London:—

Come down to Kew in lilac-time, in lilac-
time, in lilac-time;
Come down to Kew in lilac time (it isn't
far from London!)
And you shall wander hand in hand with
Love in summer's wonderland;
Come down to Kew in lilac-time (it isn't far
from London!)

—From Alfred Noyes' poem "The
Barrel Organ."

ROSE LOS ANGELES.



NEW ROSE "LOS ANGELES."

This new rose, said to have been raised by Fred. Howard, of Los Angeles, Cal., recently received its formal "christening" in the Chamber of the Los Angeles City Council, under the name of "Los Angeles." It is described as a sturdy bloom, five inches in diameter, of luminous coral pink shaded at the base of the petal with translucent gold, its fragrance equal in intensity to the odor of the finest Marechal Niel. Buds are long and pointed, expanding into a flower of mammoth proportions, with an ever increasing intensity of color as the

blooms mature, wonderful lasting qualities, petals thick in texture and the whole flower substantial to a high degree. One of the best growers in the entire family of roses, producing an endless succession of flowers from early spring to late autumn, etc., etc. It is also claimed for the new rose that it is absolutely mildew proof. Having all these superlative qualities, Los Angeles should have a triumphant entry into the ever-increasing retinue of the Queen of Flowers. We hope the claims so confidently put forth may be established. "Time will tell."

FALL FLOWER SHOW AT CLEVELAND.

There is to be a big show held in Cleveland, Sept. 2nd to 9th, under the name of The Industrial Exposition and Fair. One feature will be a Flower Show. The co-operation of the Cleveland Florist Club, The Ohio Horticultural Society, The Cleveland Garden Club, Shaker Heights Garden Club, and Lakewood Garden Club, has been invited. Committees representing these societies will meet in the very near future and arrange the details of their premium list. H. P. Knoble, of Knoble Bros., florists, is a director and a member of the executive committee of this coming event. M. A. Vinson, manager of the successful Cleveland Flower Show last November, will have active charge and general direction of the entire show. Copies of the premium may be secured by addressing Mr. Vinson, at 2515 Franklin avenue, care The Cleveland Chamber of Industry, Cleveland.

A GREAT REFORM.

The following letter from a gentleman, who was a shipper to the St. Louis market for over a quarter of a century, in approval of the closing of the wholesale flower stores on Sunday is self-explanatory.

Edwardsville, Ill., May 1, 1916.
St. Louis Wholesale Florists, St. Louis, Mo.
Gentlemen: In this progressive age as in all past ages I appreciate the amount of

courage required and the amount of abuse to withstand, to, in only a small measure inaugurate a reform in any line of business.

I too appreciate the lack of compliments coming even from those who fully agree with such reform and now take this opportunity of congratulating you as a body of highminded business men for the courage of your convictions, each one of you, in recognizing Sunday as the one day in seven to refuse to do business.

I fully appreciate the temptations you must resist, and the abuse you surely receive, but I predict you will win out in the end. And I sincerely hope to see the day when all those who are now heaping this abuse on you will thank you for having taken the initiative in this great reform.

Very sincerely yours,

J. F. AMMANN.

PREPAREDNESS.

Some day the soft ideal that we wooed
Confronts us fiercely—foe beset, pursued
And cries reproachfully "Was it then my
praise,
And not myself you loved? Prove now
thy truth."

I claim of thee the promise of thy youth,
Give me thy life or cover in empty phrase
The victim of thy genius, not its mate!"

Life may be given in many ways
And loyalty to Truth be sealed
As bravely in the closet as the field
So beautiful is Fate,
But then to stand beside her
When craven churls deride her,
To front a lie in arms and not to yield
This shows, methinks, God's plan
And measure of a stalwart man,
Limbed like the old heroic breeds
Who stands self-poised on manhood's
solid earth,
Not forced to frame excuses for his
birth,
Fed from within with all the strength he
needs.

—James Russell Lowell.

CLUBS AND SOCIETIES

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTI- CULTURISTS.

Secretary Young has put out the following.

Mothers' Day Appeal.

Appreciating the value of business brought resulting to florists and over the country through the observance of Mothers' Day, and feeling that it is of financial assistance to the florist, the Executive Board of the Society of American Florists and Ornamental Horticulturists, at its meeting in Philadelphia on March 28th, last, by resolution instructed the Secretary to appeal to florists, both within and without the Society's membership, for a contribution to a Mothers' Day fund to be placed at the disposal of Miss Jarvis for use as she may see fit.

Feeling sure that you will wish to evidence your own appreciation of the establishment of another "good day for florists," one which may ultimately surpass Easter in so far as volume of business is concerned, I am enclosing a contribution slip which I trust you will fill out and return to me with check to correspond.

This fund is created as an acknowledgment of the indebtedness of the Trade to Miss Jarvis in the work she has done and is doing, very largely at her own expense, and it is urged that this not be considered in determining the extent of a contribution.

Hoping to hear from you at once,

Yours very truly,

JOHN YOUNG, Secretary.

Department of Registry.

Public notice is hereby given that Rudolph Fischer, of San Gabriel, Cal., offers for registration the Freesia described below. Any person objecting to the registration, or to the use of the proposed name, is requested to communicate with the Secretary at once. Failing to receive objection to the registration, the same will be made three weeks from this date.

Description, Freesia Splendens—"Seedling of Purity, with strong heavy growth, foliage reaching well into the same; the stems are from two to three feet in height, the flower heads large, the individual florets opening wide. Color, bluish and reddish lavender. Two distinct shades."

JOHN YOUNG, Sec'y.

May 22, 1916.

AMERICAN ROSE SOCIETY.

As was the case nearly one year ago, when members of the American Rose Society visited Washington and the rose test gardens at Arlington, Va., the committee which arrived at the Capital on Tuesday to view the roses which they had "christened" at that time, was again greeted with a downpour of rain.

A preliminary meeting was held in the store of Gude Bros. Company, following which Arlington was visited and more than an hour was spent examining the roses. However, neither the bushes nor the flowers were in condition to be judged.

"Twin Oaks" was visited, the party being conducted over the estate by George E. Anderson, who is in charge

Meetings Next Week

Thursday, June 1.

Roseland Pk. Florists' Assoc.
Pasadena, Pa.
Savannah Horticultural and
Agricultural Society.
Southampton Horticultural Society
Southampton, N. Y.

Friday, June 2.

North Shore Horticultural Society
Manchester, Mass.
North Shore Horticultural Society
Lake Forest, Ill.
Pasadena Horticultural Society
Pasadena, Calif.
Yonkers Horticultural Society
Yonkers, N. Y.
People's Park Cottage Gardeners
Association, Paterson, N. J.

Saturday, June 3.

Pacific Coast Horticultural Society
San Francisco, Calif.

COMING EXHIBITIONS.

June 1-4, Pelham Bay, New York.
Summer Show, International Garden Club.

June 9-10, San Francisco, Ameri-
can Sweet Pea Society, Palace Hotel.

June 9-10, New York City, Ameri-
can Peony Society, Meeting and Ex-
hibition, American Museum Natural
History.

June 10-11, Boston, Peony Ex-
hibition, Massachusetts Horticultural
Society, Horticultural Hall.

June 13, Oyster Bay, L. I., N. Y.
Rose Show, Oyster Bay Horticultural
Society.

June 16, Providence, R. I. Sum-
mer Show of Rhode Island Horticul-
tural Society.

June 16-17, Mamaronock, N. Y.
Summer Show, Westchester and
Fairfield Horticultural Society.

June 22, Worcester, Mass. Rose
and Strawberry Exhibition, Worces-
ter Horticultural Society.

June 24-25, Boston, Rose and
Strawberry Exhibition, Massachu-
setts Horticultural Society, Horti-
cultural Hall.

June 27-28, Hartford, Conn. Sum-
mer Show of Connecticut Horticul-
tural Society.

June 28-29, Newport, R. I. New
port Garden Association and New-
port Horticultural Society, on the
grounds of the Garden Association.

July 11-15, Bar Harbor, Me. An-
nual Show of American Sweet Pea
Society.

July 20, Worcester, Mass. Sweet
Pea Exhibition, Worcester Horticul-
tural Society.

August 11-12-13, Boston, Ameri-
can Gladiolus Society, Horticultural Hall.

August 3, Oyster Bay, L. I., N. Y.
Dahlia Show, Oyster Bay Horticul-
tural Society.

Sept. 2-9, Cleveland, Ohio. Internat-
ional Exhibition and Fair.

Sept. 12-13, Providence, R. I.
Rhode Island Horticultural Society
Narragansett Hotel.

Sept. 18, Orange, N. J. N. J.
Horticultural Society's 10th Annual
Dahlia Gladiolus Plant and Vegetable
Show.

Nov. 11-15, Providence, R. I.
Rhode Island Horticultural Society
Narragansett Hotel.

Sept. 14-16, Syracuse, N. Y. New
York State Fair.

of the work, there and later were the
ghosts of Mr. and Mrs. Anderson at
their home. The ramblers roses are
just beginning to show color, but
along the border of the walk beneath
the ramblers-covered arches, were
many iris, delphiniums, columbines,
sweet williams, pyrethrums, etc., and
beds of peonies in fine shape.

Twenty of the thirty members were
present at the banquet at the Hotel
Raleigh. President Samuel S. Pen-
nock presided and speeches were made
by a number of those present.

A telegram extending "Greetings to
our secretary from the American Rose
Society in post prandial session as-
sembled," was ordered sent to Secre-
tary Benjamin Hammond. Another
telegram expressing regret at his ab-
sence was also sent to Theodore Wirth,
at Minneapolis. Robert Pyle told of
the excellent manner in which William
F. Gude, national representative, had
always cooperated with the members
of the society, and he asked that a
rising vote be given the latter in ap-
preciation of his efforts. Mr. Gude
responded with a few well chosen
words, referring to his efforts as a
work of love rather than of labor, and
pledging the continued cooperation of
his brother and himself in all future
activities.

J. H. McFarland spoke of the bene-
fits to be derived by getting in closer
touch with the National Rose Society
of England, and also of emulating to
some extent the activities of the other
body across the sea in its work of
getting out the rose annual and other
reading matter of benefit to all inter-
ested in rose growing. He also re-
ferred to the desirability of securing
the services of a pathologist for the
purpose of becoming acquainted with
methods of fighting rose plant dis-
eases. Prof. Mulford stated that the
executive committee should also give
some thought to means of bringing
across the continent the rose bushes
which the Pacific Coast growers would
be willing to contribute, but for which
there is no money available for the
payment of transportation charges.
He said that about 250 varieties had
been added during the past twelve
months, but that it was desirable that
more west-coast plants be sent in.

Admiral Ward and Prof. Corbett
each spoke on the subject of stock and
the relation of stocks to various soils,
climates, and other conditions. E. G.
Hill spoke of the bright future for the
gardens, stating that he expected at
some time they would prove the equal
of any of those abroad. He declared
a greater membership was necessary
in the society; that there should be a
far larger number of amateur growers
as members.

President Pennock appointed Wil-
liam F. Gude as chairman of a com-
mittee of judges instructed to make
the same trip next week for the pur-
pose of scoring the roses which would
then be in bloom.

An adjournment was then taken in
order to allow the out-of-town mem-
bers an opportunity to visit the Bot-
anic Garden.

AMERICAN ASSOCIATION OF NURSERMEN.

Milwaukee Convention.

A spirit of true co-operation appears to have laid hold of the members of the American Association of Nurserymen, and the forty-first convention to be held in Milwaukee, June 28th, 29th and 30th, will average in attendance any former gathering of the representatives of the nursery trade. With the adoption of the new constitution at Detroit, last year, a general revival of determination to place the organization on a higher plane than it has ever before attained was manifest.

At the coming convention a report by Curtis Nye Smith, Boston, Mass., who was appointed counsel of the Association, will consist of a review of his work for the past year and of recommendations for the future; and the various papers to be read will all breathe the same spirit of effort to raise the moral and commercial ethics of the organization. The intention is to make a membership in the American Association a guarantee of all that is honest in the carrying out of contracts, the stock handled, and in general business conduct. The dealer who follows the "gold brick" methods and whose representations either to customers among the public or with his brethren in the trade, is to reform or suffer elimination from the Association.

The quality of the program for the Milwaukee meeting, in variety of topics and discussion, surpasses anything ever before presented to the nurserymen, and the sessions will be full of life and profit. The receipts for membership dues are more than double those of any previous year, and the correspondence accompanying renewals indicates satisfaction with the new constitution.

Members of record in 1915 may renew without coming under the new rule, and if this notice should be read by such as have not yet renewed they may feel at liberty to send in application so as to reach the secretary not later than June 3 and be included in the Badge Book.

The address of the secretary is John Hall, 204 Granite Building, Rochester, N. Y.

LANCASTER COUNTY FLORISTS' CLUB.

At the last meeting the date for the Flower Show was fixed for the 9th, 10th and 11th of November. A picnic committee was appointed consisting of Elmer Weaver, A. F. Strickler and Rudolph Nagle and it will report in full at the June meeting. The programme committee through its chairman, Harry K. Rohrer reported the possibility of the June meeting being a Peony Symposium with B. F. Barr as the essayist. Rudolph Nagle exhibited a fine specimen of *Pelargonium* Easter Greeting.

The paper of the evening was by A. M. Herr, entitled "Looking Backward and Forward in the Florists' Business." In the discussion the matter of prices was pretty thoroughly threshed out. As a counteraction to the planting of hardy material in small city yards, crowding out the annual plant trade and reducing the revenue of every florist in the United

States, it was suggested by the writer that several florists make an exhibit of yard effects in our public parks as educators of what a yard should look like. If this were carried out all over this U. S. it would mean millions of dollars to the florists of the country. W. M. Hahman, a rose enthusiast, suggested that a rose garden be a feature of one of the parks to create a love for roses and educate the people as to what to buy.

The after-meeting talk would fill a volume and if the paper did no other good it made some discussion.

ALBERT M. HERR.

WOMEN'S FARM AND GARDEN ASSOCIATION.

Women garden enthusiasts by the hundred came to Boston last week from all parts of the United States and had a Convention and incidentally a grand good time. They came as the Women's National Agricultural and Horticultural Association and they went as the Women's Farm and Garden Association, which is more concise. Mrs. Francis King of Alma, Mich., who is president, presided at the meetings in Horticultural Hall. Governor McCall opened the convention on Thursday morning, May 18, with a short address and words of welcome were added by Stanley Wilcox, secretary to Mayor Curley, and President R. M. Saltonstall, of the Massachusetts Horticultural Society. The program included talks by Mrs. Edith L. Fullerton of Medford, L. I., N. Y., Miss Mabel A. Turner of Milton, Mass., Miss Mary Youngs, Garden City, N. Y., Miss Annie E. Burke of Brockton, Mass., E. H. Wilson of the Arnold Arboretum, Geo. T. Powell of N. Y. Experiment Station, R. W. Curtis of Cornell University, Jane B. Patton of Simmons College, Jane B. Haines of Penn. School of Horticulture for Women, Amy L. Cogswell of Lowthorpe School of Landscape Architecture, Florence I. Davis of Bridge-water State Normal School, Miss Helen Holmes of Kingston, Miss Edna Cutter and A. A. Shurtleff of Boston, Miss Alice L. Day of New Canaan, Conn., Mrs. A. H. Gross of Chicago, and others. Mrs. George U. Crocker, chairman of the national committee, Mrs. B. Hammond Tracy and Mrs. W. W. Edgar, together with a score of other ladies from the vicinity of Boston looked after the program and preparatory work previous to the convention and during its continuance in the most efficient manner. E. H. Wilson's talk on the Flowers of Japan, with stereopticon views, drew an attendance that filled Horticultural Hall to the limit.

On Friday the ladies visited the Arnold Arboretum in autos and were entertained at the home of Prof. C. S. Sargent. On Saturday they motored to Ipswich, stopping at places of interest along the North Shore, and while at Ipswich they were the guests of Mrs. Geo. E. Barnard. In connection with the meeting there were many exhibits of flowers, plants, bees, garden work clothing and tools.

Considerable interest centered about the historical table. Here were seen specimens of plants and flowers from the historic spots of Massachusetts. Mrs. William L. Eaton, of Concord,

showed the curious irises from Hawthorne's Old Manse, hollyhocks from Longfellow's garden, rare June roses from Ralph Waldo Emerson's home, lilacs from Shady Hill, the home of Charles Eliot Norton in Cambridge; English ivies from Mt. Vernon, and Grey's ivy from Stoke Pogis.

These officers were elected: Mrs. Francis B. King, president; Mrs. Hilda Loines, general secretary; Miss Louisa G. Davis, treasurer; Miss Jean Cross, recording secretary, and the following vice-presidents: Miss Mira L. Dock, Mrs. H. B. Fullerton, Miss Jane B. Haines, Miss Elizabeth Leighton Lee, Mrs. J. Willis Martin and Mrs. Schuyler van Rensselaer.

INTERNATIONAL GARDEN CLUB.

Summer Flower Show, New York, June 1st to 4th.

Preparations are now completed for the first annual Summer Flower Show of the International Garden Club, to be held on their grounds, Pelham Manor, Pelham Bay Park, New York City. Two large tents and smaller tents will be erected on the grounds. A sunken garden effect will be arranged in the tents for the display of the groups of plants, etc. The schedules are now ready with entry blanks and same can be had from the secretary-manager of the show, Arthur Herrington, Madison, N. J. The grounds can easily be reached by automobile, which is on the main Boston Road from New York. It is also on the Harlem division of the N. Y., N. H. R. R., and freight and express can be sent to City Island Station, which is nearest the grounds. People coming from the east can change at New Rochelle or can take the 3rd Ave. Elevated trains to 129th St., where they can get the train to City Island Station.

A generous prize list of nearly \$5,000.00 is being offered about equally between the trade and private estates and additional premiums will be given to meritorious exhibits.

Governor Whitman opened the grounds last year for the Club and it is expected that Mayor Mitchell will be on hand to open the Flower Show.

For further information write to Arthur Herrington, Madison, N. J.

CLUB AND SOCIETY NOTES.

The Southold, L. I., N. Y., Garden Club held a successful flower show in Grange Hall, Southold, on May 13.

The first annual flower show of the New Century Club, of Chester, Pa., will be held early in June in Library Hall, Chester.

The Village Improvement Association, of Moorestown, N. J., will hold its tenth annual flower show in June, date to be announced later.

The St. Louis Retail Florists' Association held a splendidly attended meeting May 15 at the Mission Inn Garden. They will continue summer meetings at the garden, but out of doors.

The National Association of Gardeners and American Association of Park Superintendents have been invited to hold a "field day" at the Cromwell Gardens of A. N. Pierson, Inc., Cromwell, Conn., on June 21.

The Development of the Modern Winter Flowering Sweet Pea

An Address by Howard M. Earl before the Florists' Club of Philadelphia, on March 7.

In the development of the winter flowering sweet pea we must go back to the introduction of that fine old variety, *Blanche Ferry*, for undoubtedly the American winter flowering sweet pea can be traced back to that variety, or the early flowering mutations which have since arisen from it. The history of *Blanche Ferry* is very interesting and, strange to say, the name of its originator is not known. Over fifty years ago a quarryman's wife in Jefferson County, New York, procured some seeds from a bright flowered plant of that very old, in fact, one of the original varieties, *Painted Lady* (introduced in 1700), and for many years after she sowed and selected the best plants from her original selection, thus carefully and painstakingly improving her stock of what was in later years to be known as *Blanche Ferry*.

W. W. Tracy, who was then connected with the firm of D. M. Ferry & Co., of Detroit, in passing that way saw the plants and was immediately impressed with their distinct character and obtained a small stock, only, we believe, about one hundred seeds. The variety was named by the firm *Blanche Ferry* and was introduced by them in 1889. In 1895 Messrs. Ferry introduced an earlier flowering type of the same variety, calling it *Extra Early Blanche Ferry*; then, in 1898 W. Atlee Burpee & Co. introduced *Earliest of All*, this being a still earlier type and this variety is what is known on the market and grown so extensively as *Christmas Pink*. There is a much earlier flowering variety, but the growth is smaller and it is questionable if under glass the flowers attain quite the size of its later blooming counterpart. Undoubtedly, all our winter flowering sweet peas have the *Blanche Ferry* blood in them. Although the crosses later may not have been made on that variety, still, the originals of the type all emanated from it.

The *Telemly* sweet pea, which originated with the Rev. Edwin Arkwright at *Telemly*, Algeria, also sprung from *Blanche Ferry*. Mr. Arkwright explains that a sport from *Blanche Ferry* showed itself in his garden, blooming in February, when he promptly marked it and the seed saved showed flowers the following January. From this time on he got various sports from this and also crossed them with some of the best of the summer flowering sorts. He explains that he sows all his peas about the end of September, and while the summer flowering varieties

do not bloom until May these early varieties come into bloom from January. As soon as *Countess Spencer* was introduced in 1904 Mr. Arkwright procured it and has been crossing his original type with the new waved, or *Spencer* varieties, and I believe he has now a number of *Spencer* early flowering varieties quite fixed to color.

Mention should also be made of the early flowering type known as *Englemann's*. About 1903 some plants of the flowering type sported with him producing plants of winter flowering habit. These he grew for some years under glass in England, but on account of the dull weather usually experienced there throughout the winter, he has ceased to grow this type.

The first introduced of *Zvolanek's* varieties of winter flowering *Spencers* are, we believe, the direct results of crossing the winter flowering *Grandifloras* with the summer flowering *Spencer* type, but there have also been introduced several varieties of true *Spencer* form, but winter flowering type, which we understand came as direct sports from the summer flowering varieties, namely, *Yarrowa*, *Rose Queen* and *Anita Wehrman*.

The origin of *Yarrowa*, is very interesting. Arthur Yates, of Sydney, explains that for many years sweet peas were looked upon as one of the most difficult plants to grow successfully in the warmer sections of Australia. The regular summer flowering types bloomed in the late spring when they were liable to sudden bursts of hot weather and heavy winds which often shortened their flowering season to a few weeks. Occasionally they failed to bloom at all. However, the introduction of such varieties as *Earliest of All*, *Mont Blanc* and later the *Telemly* and newer American *Grandiflora* varieties quite revolutionized sweet pea culture in Australia, as these early varieties flowered in the winter and early spring, giving them a supply of flowers for several months when practically no other flowers were available.

This was a great advance and sweet peas soon became one of their most popular flowers. But the quality of the winter flowering varieties was so much below the standard of the modern *Spencers* that the Australian growers were not satisfied and efforts have been made with considerable success by a few enthusiasts to raise by selection and cross-fertilizing a superior type of the winter flowering varieties of the *Grandiflora* section.

However, a decided advance was in view, as in 1908 there appeared in the garden of a Mr. John Young, of Sydney, in a patch of new summer flowering *Spencers*, one plant of true *Spencer* type, but quite distinct from all others. It was different in its vigorous habit and upright growth, earliness and color, and was in full bloom when the others were only a few inches high and had gone to seed before the normal type had commenced to show flower buds. The seeds from this plant were carefully

saved and sown the following autumn, when it came quite true to the parent and instead of remaining more or less dormant all winter as the original *Spencers* do it commenced to bloom in the late autumn and continued to flower right through the winter, going to seed in the early spring, as *Telemly* and American winter flowering varieties do in Sydney.

This early *Spencer* is quite distinct in habit from any of the previous early flowering varieties. It is an extremely vigorous grower and with good cultivation will in the vicinity of Sydney top a ten-foot trellis, while the *Telemly* and American older varieties grown alongside only attain half the height. The Australians have been working on *Yarrowa* as the seed bearing parent of many crosses using the best of the summer flowering *Spencers* and we believe they have now quite a family of *Yarrowas* in the best colors, but so far as we can judge by reports they are as yet far from being properly fixed, though doubtless in a year or two this will be remedied and as we consider *Yarrowa* the earliest doer of all winter flowering sweet peas, if these Australian children of *Yarrowa* embody the characteristics of the parent, they will be well worth having.

My experiences and observations have been that in all lines of plant breeding the experimenter has to admit many times that nature's own crossing produces a type that is far easier fixed than when one sets about to try and obtain a given color, or type and to no other flower does this apply more than to sweet peas.

Florists were quick to recognize the superior qualities of the *Spencer* sweet pea which Burpee first offered in America in 1904 under the name of *Countess Spencer* and with the distinct new type came an earnest desire on the part of those interested to produce, if possible, a strain of the proper growth and flowering characteristics for forcing under glass.

The first to endeavor to place a type of winter flowering *Spencer* on the market was Anten *Zvolanek*, of Bound Brook, N. J., and later of Lompoc, California, but Mr. *Zvolanek's* experience, judging from trials I have made, must have been very similar to those which Morse, Burpee and other growers had had when trying to fix crosses, or sports, of the original or *Grandiflora* types.

As a summer cut flower the *Spencer* so quickly superseded the *Grandiflora* type that it was only natural for florists to be most eager for a winter flowering strain producing the same beautifully waved flowers that today appeal to all flower lovers during practically the entire twelve months of the year. To me it seems that this extreme eagerness was solely responsible for some selections being placed on the market in an unfixed condition. Such a demand had been created for the seed of the *Spencer* type for forcing that many growers were satisfied to pay what might be called

BOSTON MAY FLOWER SHOW.



First Prize Rose Exhibit by F. R. Pierson Co., Tarrytown, N. Y.

fabulous prices for seed which did not represent a fixed type, realizing that the high prices obtained for the waved flowers would permit a severe roguing in the bed or bench, or a careful assorting of blooms after they were cut.

The field of sale for seed of forcing sweet peas is very limited, and while watching the work of George W. Kerr at Fordhook I always had in mind the fact that it was better to "make haste slowly." One of the strains of the modern winter flowering sweet pea which I have had the pleasure of watching develop represents practically six years of hard and patient work on the part of Mr. Kerr, and after repeated trials we were forced to concede that it was better and more sure to start at the bottom and work up slowly in his way.

As in all other lines of horticultural work, the seedsman is forever on the lookout for something better and those firms who maintain extensive experimental grounds always have a great number of selections coming on, the majority of which the public will never hear of. This applies to sweet peas as well as to other blooming plants.

The following questions, put by a commercial grower, were answered by Mr. Earl at the conclusion of his address.

1. What is the best treatment of winter-flowering Spencer sweet peas, planted in a carnation bench, to produce seed?

As sweet peas grown under glass will not set seed until towards the end of April, nothing would be gained by starting the seed very early in the fall. Therefore, as there would be no advantage in allowing the flowers to re-

main on the vines, meanwhile would advise cutting them regularly until towards the middle of April.

2. And how soon ought they to set seed?

If the plants referred to have been flowering now for some time, they should be given regular applications of liquid manure and perhaps a top dressing of thoroughly rotted manure, the desire being to keep them growing strongly until the period when they would be likely to produce the most seed.

3. There are a few vines I particularly want to get all the seed of that is possible.

As the days get longer and the sun, naturally, much stronger, the vines are likely to be attacked by the green fly, and, unless this is seen to in time, the plants might be so badly crippled as to preclude any chance of seed setting. It is, therefore, well to fumigate the house at intervals of ten days or so as "Prevention is better than cure."

HORTICULTURAL SOCIETY OF WESTERN PENNSYLVANIA.

The meeting of this Society held in the Annex Hotel, Pittsburgh, was an interesting event. Among the speakers were W. E. Marshall of New York City, Mr. McCullom of the U-Bar Company, Michael Curren, gardener for Mrs. W. M. Horne, Sewickley Heights, and Wm. Murphy, supt. for Henry Lee Mason, Sewickley Heights. Walter James of the W. Henry R. Hilliard place, received a cultural certificate for *Spiraea Gladstone* and Michael Curren got a certificate of merit for hybrid *calceolarias*. A certificate of merit was also given to Wm. Murphy for seedling *anthuriums*.

MOVEMENTS OF GARDENERS.

Peter G. Brough has taken charge of the "Wenga Estate," Armonk, N. Y.

David Ridpath has been appointed head gardener for J. W. Johnson, New Brunswick, N. Y.

H. Taylor succeeds D. Hothersall as superintendent on the George Bullock place at Oyster Bay, N. Y.

William Ford has accepted the superintendency of the A. E. Smith estate at Oyster Bay, N. Y.

Harry Jones, formerly of Glen Cove, N. Y., is now gardener for the R. A. Strong estate, Portchester, N. Y.

Andrew P. Clarkson goes from Dedham, Mass., to take charge of the estate of Mrs. A. R. Meyer at Kansas City, Mo.

M. J. Collings, recently of Richmond, Va., has removed to Litchfield, Conn., where he has charge of the B. S. Clark estate.

David Hothersall, recently of Oyster Bay, N. Y., has accepted the position of superintendent of the Du Pont estate, Wilmington, Del.

The new superintendent for Mrs. A. S. Alexander's place in Roslyn, N. Y., is Alexander Robinson, formerly at Catasauqua, Pa.

Andrew Forsyth, gardener in charge of the grounds of John Daub, Pittsburgh, Pa., who has been seriously ill for some time, has returned from Hamilton, Ontario, and Lenox, Mass., much improved in health. During his stay at Lenox he was the guest of Alexander McLeod.

Obituary

George W. Cardwell.

George W. Cardwell, florist, engaged in a florist business in Port Huron, Mich., died on May 13, aged 68 years.

Robert Haentze.

Robert Haentze, son of the Haentze Co. florists, Port Huron, Mich., died on May 13, aged 48 years.

Mrs. M. Ullenbruch.

Gertrude M. Ullenbruch, wife of Math. Ullenbruch, died at her home in Port Huron, Mich., on May 13.

U. B. Wakeman.

Uriah B. Wakeman died in the Harper Hospital, Detroit, Mich., on May 1, at the age of 70 years. He was the head of the Detroit Cut Flower Supply Co.

John Wright.

We learn from the columns of our British exchanges of the death on Tuesday, May 2, of John Wright, V. M. H., one of the veterans of horticulture and for many years editor of the Journal of Horticulture, succeeding Dr. Hogg. Mr. Wright was eighty years of age.

John Kral.

It is with deep sorrow that we record the death of one of the best-liked men in the wholesale cut flower trade of New York City. John Kral was in the employ of Moore, Hentz & Nash in their salesroom at 55 and 57 West 26th street. Genial, manly and attentive always to business, "Johnnie" Kral made a friend of every one with whom he came in contact. He passed away on Sunday morning, May 21, in Greenwich, Conn., after a few days' illness. His age was 41 years.

Alfred Ross.

Alfred Ross, pioneer seedsman of Wichita, Kas., died on Sunday morning, May 14, at his home on North Market street, aged 67 years. Mr. Ross was known to seed and commission men all over the country, and bore a reputation as a fine business man with the traveling men of all the large eastern and northern wholesale seed firms. He was born at Mill Creek, Va. In the year 1884 he, with his brother, J. M. Ross, went to Wichita and embarked in the seed business under the title of Ross Brothers, and since that time the firm has been a leading factor in the development of the farming and garden industry of that section, and Mr. Ross is said to have accumulated a fortune from his seed and commission houses. He was kindly and philanthropic in a quiet way and will be greatly missed. Of the eight pall bearers at his funeral all, with one exception, were employees of the firm, and two of these had been with the firm more than twenty years.

CATALOGUES RECEIVED.

August Rolker & Sons, New York—Prices of Holland and American Bulbs and Roses for Fall 1916 Delivery. Wholesale.

Schaum & Van Tol, Boskoop, Holland. McHutchison & Co., American Agents.—Wholesale Trade List of Nursery Stock, Fall 1916-Spring 1917.

LOOKING BACKWARD AND LOOKING FORWARD.

The above was the title of a paper read before the Lancaster (Pa.) Florists' Club at its last meeting by A. M. Herr. Mr. Herr reverted first to the time when as a 15-year-old youngster he worked with the firm of A. D. Rohrer & Bro. in the days when geraniums in 5-inch pots sold readily at \$2.50 a dozen. He could see no reason why with proper working up, a market at equal prices could not be attained. He averred that entirely too much second-class stock is grown and sold. He spoke of the possibility of 12-inch pot and tub specimen geraniums for porch decoration and which might be sold at from \$2.50 to \$10.00 each, adding, "never sell one of these specimen geraniums where you as an educated florist know that it will not give satisfactory results and the customer the best of satisfaction. Better to lose twenty sales than to have one dissatisfied customer, who can truly attribute his dissatisfaction to you."

He compared the pansies sold now with those sold formerly at two or three times the price obtainable now, saying that "the florists are the losers, as they always are when they purchase cheap stock. There is no fortune awaiting the man who tackles this problem, but a young man who would undertake the improvement and selection of pansies to-day would, I believe, find the market ripe before many years for pansies of quality at a reasonably fair price."

Speaking of the formal beds of coleuses, alternantheras, petunias, salvias and similar stock once so popular for the city yards he attributed the abandonment of these to "the persistent efforts of our landscape gardeners and 'artistic decorators,' who have trees, shrubbery and hardy stock to sell, but without business instinct enough to know that the ordinary city yard is not their field of endeavor, the sale being as far as they can see. Our retail plant men should exercise their selling powers to counteract this planting of shrubbery and get the people back to the beauty of a real flower bed or two."

"In the matter of hardy stock the advance depends entirely on the men who handle it as to what the future will bring forth. Many city yards are large enough to stand a bit of this planting but the most of them are too small and had better be left religiously alone. I can go to any part of this city and pick out yard after yard where the planting of shrubbery is ridiculous and an offence to any one with an artistic sense. A lecturer here recently told us that a bed of red geraniums was a slap in the face to any one with an artistic sense; some of these hardy plantings are enough to give any one with just a love for the beautiful, artistic paralysis."

"Window boxes and porch decorations are coming to be more of a feature and should be made the special study of every retail florist. When you sell material for boxes and customers want something that will not last the season through educate them to throw it out and replace it once or twice during the summer. This may be a bit hard to do but a little personal work on your part will give results that will make of them a permanent customer."

Mr. Herr called attention to the greatly increased prices of coal and labor now and said that "the man who does not seriously set himself to the task of getting a little more money for his stock is not going to win out. The retailer does not feel this quite as keenly as we wholesalers who have been working on a narrow margin of profit right along. Personally, I know that it is not possible for wholesalers to sell stock at last season's price the coming winter and continue in business, unless the quality of the stock is cheapened considerable and in this case the buyer will not get full satisfaction for his money."

"If we want Lancaster County to be looked up to as a safe place to send orders we must not consider how cheap we can grow stock but how near right we can grow it and make the price accordingly. Estimate costs carefully and you will be surprised to find out how little you are making on some lines of stock, then figure an increase on the cost of your next winter's coal and everything else you buy—even a fifty per cent increase on the envelopes you use to send out letters, and see what it means."

"You retail men should go through the same line of cost estimating and for goodness sake stop cutting prices. You do no good to yourself and very little harm to the other fellow, but a lot of harm to the trade in general. In a town like this a uniform price is an impossibility as one man can sell a plant at a profit for a nickel that another man would have to sell at seven or eight cents. Rather than sell at a loss cut out some lines and co-operate with the other fellow. Co-operation means much more than we as a Club seem to realize. Where would Sam Pennock's tug-of-war men have been last summer at our picnic if they had not all pulled together? Let us pull together and upbuild this business of ours."

ALBERT M. HERR.

Washington, May 22.—The Agricultural appropriation bill was reported by the Senate committee today carrying \$23,900,000, a reduction of nearly \$750,000 from the total as passed by the House.

The committee eliminated entirely \$200,000 allowed for free distribution of seeds. If the bill passes as reported there will be a fight in conference, as the House always insists upon its free seeds.

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American Seed Trade Association.

The American Seed Trade Association Convention will be called to convene at the Hotel Sherman, Chicago, June 30-22, next. The program has this year been purposely shortened as matters of vital importance to the Association and the trade will be up for discussion and it was thought wise to allow sufficient time to consider them.

The following are the rates at the Hotel Sherman, which has been selected as headquarters:

Room with bath, \$2.00; \$2.50 up to \$3.00.
Room with bath, with L. I., \$3.00; \$3.50, \$4.00, \$4.50, \$5.00, \$5.50, \$6.00, \$6.50, \$7.00 and up.
Single and two persons for two persons \$5.00, \$7.00 and up.

The management urges early reservations to avoid disappointment.

C. E. KENDEL, Sec'y.

Trade Conditions.

Retailers are generally pleased with the volume of business done, but feel that more or less valuable trade has been lost owing to the lateness of the season, which cannot be regained this year.

Last week there were reports of light frosts in various sections of New York, New Jersey and New England. The principal damage done was to tomatoes and beans where the latter were out of the ground.

The neglect of many dealers to place contracts for their future requirements until very late in the season is oftentimes embarrassing to growers. We are advised that at the present time quite a number have not placed their orders covering their future requirements in peas and beans, as also other seeds. Possibly a month hence they will come forward and should the growers, because of unfavorable crop conditions, or being too fully booked up to accept more business, hesitate to accept these late orders, the tardy ones would be greatly surprised and more or less indignant. Some day conditions will be reversed and the growers will hold the whip hand; if they do not use it on a few of the procrastinators, they will be worthy to wear wings and play harps.

Seed Trade Convention.

The Convention of The American Seed Trade Association is now about four weeks off. Matters of unusual and vital interest will be up for discussion and every seedsman who wishes the organization to be a forceful vital factor should aim to attend. It is unnecessary to be specific as to the matters that will be considered, excepting to say that the "Disclaimer" will be one, as the question as to whether it should be modified or retained in its original form will be up

for serious consideration. Many conservative dealers express the opinion that the "Disclaimer" is a little too drastic, and that its absolute repudiation of all responsibility on the part of the seller is not in accord with the spirit of the day. This absolute repudiation of responsibility has been the cause of much agitation among the Board of various State Experiment Stations, and certain officials who are always thinking to cater to the farmers' interests, (but primarily for the farmers' voter looking to the enactment of laws compelling the seedsmen to assume responsibility for the seeds they sell, and it is felt by many that the "Disclaimer" can be softened and toned to some extent without vitiating its legal and protective value.

It has been suggested that eastern seedsmen who propose attending the Convention and who are not in too desperate a hurry, would travel part of the distance by water. They could take train to Buffalo and go by one of three lines to Chicago, either by the Great Northern Steamship Company, the Anchor Line, or the D. & B. Line. The latter would involve two changes—one at Detroit, the other at Mackinac, but as these changes are made at the same dock where the passenger lands, they are easily accomplished. The two first named lines will carry the passengers to destination without change. The time consumed is about thirty-six hours from Buffalo.

One Week's Imports.

Imports at the Port of New York of horticultural material, for the week ending May 12, were recorded as follows:

Bulbs—France, \$2; Netherlands, \$4,034; England, \$87; Jamaica, \$1; Hongkong, \$30.

Plants—Belgium, \$1,070; France, \$38; Netherlands, \$8,296; England, \$1,109; Scotland, \$114; Bermuda, \$14; Jamaica, \$2; Trinidad, \$90; Japan, \$74; Guatemala, \$300.

Red clover seed—France, \$17,910.

Grass seed—Scotland, \$2,219.

Other seeds—France, \$15,038; Germany, \$512; Italy, \$365; England, \$10,525; Argentine, \$2,389; Chile, \$611; British Indies, \$13,280; Hongkong, \$301; Morocco, \$11,203.

Nitrate of soda—Chile, \$546,887.

Other fertilizers—Argentine, \$10,208.

New Australian Sweet Peas.

A. T. Boddington Co. has just received the first shipment of all the new varieties of Australian sweet peas. Many of these are regarded as great improvements over previously existing types and it is expected that the blooms will create a sensation when put on the market next winter. Some good things in the line of sweet peas were expected from New Zealand, but, unfortunately, the New Zealand crop was an almost complete failure, growers barely saving enough seed to preserve their stock.

Grass.

Do you happen to know, Mr. Seedsman, how many kinds of grasses there are? Five thousand, Professor Montgomery says in his "Productive Farm Crops" (Lippincott Farm Manuals). But out of this great number, man uses only ten, as a rule, and only five of those are extensively cultivated. It is a curious fact that while practically every other farm crop has undergone great changes under cultivation, grasses are almost the same now as when man first began to use them as a wild plant. 1,000 varieties of wheat, 500 varieties of corn, and only one variety of blue-grass, or any other grass under cultivation; grass varieties developed themselves before man took a hand in the game. And no matter what their deficiencies, he has so far been content to use them without attempting improvement. If all flesh is grass, it might be a good idea to improve the grass, and note the effect on the ultimate product.

MINNESOTA NURSERY LAWS.

A Wrong Interpretation.

A mistaken idea exists among some Minnesota nursery stock dealers and florists that they are required by the Minnesota law to purchase their supplies from Minnesota nurseries and not from nurseries or dealers in other states. This impression is epitomized by the prominently displayed paragraph on the letterhead of a Minnesota nurseryman, reading:

"Nurserymen have to furnish their customers with nursery stock from a bona fide inspected Minnesota nursery, according to law, passed by the state legislature at the 1913 session."

If this were true, the provision would clearly be unconstitutional as a discrimination against stock grown in other states. (In re Schechter, 63 Fed. Rep. 695; Minn. v Barber, 16 U. S. 313, 322.)

The Minnesota Legislature in 1915 amended the law of 1913, section 7, so that the Minnesota dealer or florist can, by filing an affidavit that he will buy and sell only stock duly inspected by an official state inspector (not necessarily a Minnesota inspector), and filing with the state entomologist a list of all sources of stock, sell his stock freely.

CURTIS N. SMITH.

NURSERY STOCK IMPORT RULES.

The Federal Horticultural Board, U. S. Department of Agriculture, has just issued (May 15, 1916) Rules and Regulations governing the importation of nursery stock into the United States effective July 1, 1916, and superseding all former rules. The most important change is the provision that permits to import nursery stock from countries which maintain nursery stock inspection and permits to import orchids and tree seeds from countries which do not maintain nursery stock inspection, instead of being reissued each year, will be valid until revoked.

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We have a splendid lot of this excellent fertilizer on hand ready for immediate shipment

Price per ton, \$40; 1-2 ton, \$20; 500 lbs., \$10; 100 lbs., \$2.50

R. & J. FARQUHAR & CO., BOSTON, MASS.

SEEDS--ONION SETS

Appreciation of a high order of Merit in Seeds and Seed Service leads naturally to purchasing from

LEONARD SEED COMPANY

226-230 W. KINZIE ST., - - - CHICAGO



SEEDS for the FLORIST

ASTERS QUEEN of the MARKET.

The best extra early variety, large, double flowers, on long stems, in colors: Crimson, Dark Blue, Light Blue, Rose Peach Blossom, White.

Trade Packet, 20c., Oz., 75c.

Sweet Peas, Cyclamen, Primulas, Lily of the Valley, from Our Own Cold Storage Plant.

Our Trade List Mailed on Application.

FOTTLER, FISKE, RAWSON CO., THE SEED STORE BOSTON
Faneuil Hall Square

FORCING GLADIOLUS

All First Size Bulbs

	100	1000
America, pink	\$1.25	\$10.00
Augusta, white	1.35	11.00
Branchleyensis, red	1.25	10.00
Francis King, scarlet.....	1.25	10.00

A. HENDERSON & CO.

311 N State St. CHICAGO, ILL.

Burpee's Seeds
PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT

W. E. MARSHALL & CO.
SEEDS, PLANTS AND BULBS
Horticultural Sundries

166 W. 23rd St., NEW YORK

MICHELL'S
Seasonable Seeds, Bulbs,
Plants and Supplies

Send for Wholesale Catalogue

HENRY F. MICHELL CO.

518 MARKET ST. PHILADELPHIA

Our WINTER-ORCHID-FLOWERING SWEET PEA has done well wherever grown the past winter. New List will be out in June. If not on our books already, send your name in.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

KEYSTONE SNAPDRAGON

Best Winter Flowering Pink Snapdragon on the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.

PHILADELPHIA, PA.

LILIUM GIGANTEUM

COLD STORAGE

Extra Selected Stock. Gladiolus for forcing. Nannus, Coivilled or large flowering type. Greenhouse Fertilizers. Ask for 1916 Seed Catalogue.

Joseph Breck & Sons Corp., Seedsmen
47-54 No. Market St., BOSTON, MASS.

VERY SHORT CROP OF TENERIFFE BERMUDA ONION SEED

Seedsmen and dealers are invited to write to me at once for full particulars of HOW TO SECURE CERTAIN SEED AT MODERATE PRICES. Write quick to avert disastrous consequences.

FEDERICO C. VARELA,

Teneriffe (Canary Islands).
Letter postage to Teneriffe, 5 cents.

Thorburn's GLADIOLUS

Various Choice Mixed
Varieties

See our Florists' Catalogue and ask for special prices.

J. M. THORBURN & CO.,
53 Barclay St., New York

FOR GLADIOLUS

PENDLETON,
HALLEY, Etc.

Send to Childs
John Lewis Childs, Inc.

FLOWERFIELD, L. I., NEW YORK

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

MIGNONETTE

IMPROVED ECLIPSE.

Superior to all others for winter blooming, exhibition, or cutting. Immense fragrant spikes 10 to 15 inches long. Greenhouse grown seed from a re-selected strain. Pkt. 25c., 1/16 oz. \$1.00. Catalogue upon application.

THOMAS J. GREY CO., Seedsmen
29 So. Market St., Boston, Mass.

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

JAMES VICK'S SONS

Seedsmen, Nurserymen,
Florists

ROCHESTER, N. Y.

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

For KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for New York. Write or Phone to

MAX SCHLING

22 West 59th Street, Adjoining Plaza Hotel

Best Florists in the States as References.

EUROPEAN ORDERS EXECUTED.
Members of the Florists' Telegraph Delivery.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2130-2141 Broadway, New York
Telephone 1543-1544 Columbus

YOUNG & NUGENT

42 West 28 Street
New York

Members Florists' Telegraph Delivery

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

WORCESTER, MASS.

Randall's Flower Shop

HARRY L. RANDALL, Proprietor.

Member Florists' Telegraph Delivery Association

Of Interest to Retail Florists

NEW FLOWER STORES.

Chicago. Condon Flower Shop, 307 W. Madison Street.

New Orleans, La. The Orchid Store, removed to Canal Street.

Newark, N. J. M. Gahr, removing to 312 Springfield Avenue.

New York, N. Y. Twentieth Century Flower Shop, 1 West 42d Street.

Pittsburgh, Pa.—Jos. Feinberg and Thomas Silverblatt, Upper Liberty Avenue.

NEWS NOTES.

Jamestown, N. Y.—The Valley City Floral Company has purchased the business of the Jamestown Floral Co.

Hannibal, Mo.—Michael Sedlheimer has purchased the greenhouses and business of E. A. Hodge, and will make considerable improvements and additions.

New Bedford, Mass.—E. S. Haskell, well known as a florist for many years in New Bedford, has announced his candidacy for appointment as superintendent of parks to succeed the present incumbent, Thomas W. Cook, if that portion of the Fusion party which is opposed to Mr. Cook is successful in getting him out.

Providence, R. I.—"Baby's Flower Day," conducted on May 13th by the Federal Hill House Association for the benefit of the baby clinic, was a greater success than its promoters anticipated. It was the desire of the committee to raise \$500. This figure was exceeded, the total collected being \$723.70. Flowers were sold by 50 flower girls, who did not leave the business district, and by 2 o'clock headquarters was swept clean of blossoms.

BUSINESS TROUBLES.

Houston, Tex.—In the district court, the appointment of a receiver for the Fort Ideal Flower Shop, 617 Main Street, has been asked for.

WHY

Ginn The Florist?
4 Park St., Boston, Mass.

**Because Satisfaction
Is Guaranteed**

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address Dardsflor.

**JOHN BREITMEYER'S
SONS**

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery Association.



GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists' Telegraph Delivery

**IN THE
National Capital**

At your service to deliver Flowers or Designs on Order by Telegraph or otherwise. Prompt Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and I St.
WASHINGTON, D. C.

Rochester, N. Y.

**J. B. KELLER SONS,
FLORISTS**

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2126
Members Florists' Telegraph Delivery

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY AND VICINITY

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEW YORK

413 Madison Avenue at 48th Street.

WE GUARANTEE SATISFACTION

MEMBER F. T. D. A.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
We take good care of your orders
Members of F. T. D. Association.

WASHINGTON

915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1836 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

SALTER BROS.
— FLORISTS —
38 Main Street, West
ROCHESTER, - N. Y.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1533.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.
Members of Florists' Telegraph Delivery.

KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
Member F. T. D. Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE 125,000 Sq. Ft. of Glass
WORCESTER, MASS.

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl
St.

Albany, N. Y.—The Rosery, 23 Steuben
St.

Albany, N. Y.—William C. Gloeckner, 97
State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont
St.

Boston—Zinn the Florist, 4 Park St.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th
St.

Cleveland, O.—The Smith & Feters Co.,
735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643
Broadway.

Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

New London, Conn.—Reuter's.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. corner 44th St.
and Madison Ave.

New York—Max Schling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.

New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

Rochester, N. Y.—Salter Bros., 38 Main
St., West.

San Francisco—Pellicano, Rossi & Co., 123
Kearny St.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Washington, D. C.—George H. Cooke,
Connecticut Ave. and I St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—H. F. A. Lange.

Worcester, Mass.—Randall's Flower Shop,
3 Pleasant St.

Penn The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 Tremont St., BOSTON

REUTER'S Members Florists
Telegraph
Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence
ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of
TORONTO

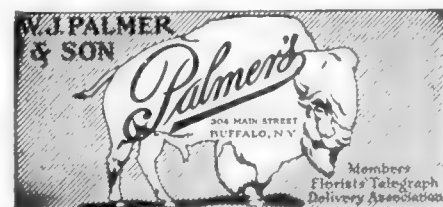
Delivered on mail or telegram order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES
Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.



FOR MEMORIAL DAY

NEW CROP DAGGER FERNS

\$2.00 per 1000

Can Supply in Any Quantity

H. M. ROBINSON & CO., 32 OTIS ST. 2 WINTHROP SQ. BOSTON

Telephones, Main 2616-2617-2618; Fort Hill 25290

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

Wholesalers were notified today that no more shipments of ferns would be made from Massachusetts to Chicago at present.

A new cottage is now completed at Williams' Bay, Lake Geneva, and the Budlong and Schupp families will soon be settled there for the summer.

At Kennicott's, peonies are coming in and are being promptly placed in cold storage. The greater part of the blooms are arriving in satisfactory condition, and it looks now as if the season will be a profitable one.

The Stanley rose is each year gaining in favor at the J. A. Budlong place where it made its first appearance in some unknown way. Thinking it something entirely new, Mr. Schupp named it Priscilla, after his daughter, and later learned that it is the Stanley. One large bloom of this bloom was by actual count found to contain nearly 100 petals. Mr. Schupp has now quite a stock and likes the rose for its pink color, form and fine stem and foliage.

The strike which is now on does not affect those growers within a few miles of the city who use motor trucks. So far shipments by train have generally been delivered without much delay and no violence, but with outgoing shipments there has been more or less delay and with Memorial Day almost upon us and commencement season at hand, it is much to be desired that the difficulties of the express drivers be adjusted soon, if possible. Everything possible is being done by the representatives of the trade to bring this about.

ST. LOUIS.

The Art League offers \$50 in prizes for floral displays in downtown windows for the week of the Democratic

National Convention, beginning June 11th.

W. J. Pilcher, of Kirkwood, reports that his rose grower, George Schmidt, broke his arm last week when his horse ran away near his greenhouse plant.

The new greenhouse plant of H. Blixen is almost completed and will be, when finished, 20,000 feet of glass. This is just across the way from J. F. Ammann's place, which consists of 50,000 square feet of glass. The new firm, known as the Woodlawn Gardens, will grow roses, carnations and chrysanthemums for this market.

WASHINGTON, D. C.

George A. Comley, of 1204 Wisconsin avenue, suffered a rather painful accident recently, badly bruising his hand and breaking one of his fingers.

The Brookland Rose Society announces that because of the cold weather it has postponed until Monday and Tuesday of next week the annual exhibition of roses which had been scheduled for the present week.

Peter Bisset has returned from a trip to New York City and Philadelphia, to which places he went to inspect the cooperative tests of American and Holland grown bulbs. He also inspected newly-introduced materials in the nurseries and greenhouses.

Fred H. Kramer is complaining of the way in which shipments of rhododendrons and boxwood from Holland reached him last week. Both were in such poor condition as to be worthless. In all probability the plants were held up on the docks in Europe for a long time before being loaded.

There is now required but the signature of the President to make the Johnson measure, prohibiting fraudulent advertising in the District of Columbia, to become a law. The proposed law carried with it fines of up to \$500 and imprisonment of up to six months for violations. Washington merchants have been working hard for a long time in the effort to have this law enacted.

BOSTON.

Miss E. B. Snell, of Cambridge, is now in the employ of Henry R. Comley, Park street.

An exquisite display of pond lilies is the attraction in Thomas F. Galvin's window this week.

Wm. T. Chase, who has been with Julius Zinn for many years, is taking a much-needed and well-deserved rest at Hudson, Mass.

Martin Lally, manager of J. Newman's Tremont Street store was by illness forced to temporarily relinquish his duties last Wednesday.

There has been considerable discussion over the advisability and legality of keeping the Boston Market open for business on Sunday, May 28. Those in favor of the plan contend that Saturday is a bit too early for transacting the bulk of the holiday trade and that Monday, on the other hand, is too late. No official action has yet been taken by the directors.

The entire wholesale florist district of Boston will be completely isolated from all shipping points during the Preparedness Parade on Saturday the 27th. The route of the parade is such that Winthrop Square and Devonshire street will be surrounded by a practically impenetrable human wall during the busiest half-day that the florist calendar knows. Permits for crossing the line of march cannot be obtained and there is but one way to get bundles and packages to the North or South Stations. This is afforded by the subway on Franklin street, and it will be woefully inadequate in serving the purposes of the wholesale consignors. There seems to be no other way out of the difficulty.

FLOWERS BY TELEGRAPH

SAN FRANCISCO

CALIFORNIA

Pelicano, Rossi & Co.

129 KEARNY ST.

HIGH GRADE PLANTS

For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.

PROFITS PROFITS PROFITS

"HERE COMES THE BRIDE"

There's Money in June Weddings and June Graduations and Commencement Days for the Florist **WHO KNOWS HOW TO PLEASE.**

We can supply you with strictly up-to-date accessories, which you **must** have if you want to give satisfaction. Stock up now and have the goods to show customers. Send for prices and you will be astonished to see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

1129 Arch Street, PHILADELPHIA, PA.

PHILADELPHIA.

Dennis T. Connor, of the Lord & Burnham Co., has been confined to his bed for the past two weeks, the result of a fall while visiting Baltimore.

Theodore H. Bird, a well known public accountant of this city, died on the 20th inst. He attended many of the festivities of the florists and was a wonderful singer and a great humorist.

Mr. Prince at the W. K. Harris place states that their business from Thanksgiving to Easter was unprecedented, especially in the sale of azaleas. Six houses are now being started with chrysanthemums.

Wm. J. Muth, of the King Construction Co., is much pleased with his new quarters in the Harrison Building where the added facilities for meeting customers are greatly appreciated on both sides. He still keeps up his private residence at Lansdowne where customers can ring him up as usual outside of business hours.

The J. Wm. Colflesh Nurseries at 53rd and Woodland avenue, contemplate moving to Glenolden, Pa., sometime in the near future, having bought a farm at that place. They will retain the present place for the retail end. Mr. Colflesh deplores the lack of geraniums, saying he could dispose of 20,000 plants, if he had them.

Going through the immense nurseries of the Robt. Craig Co., at Norwood, the old adage "Big oaks from little acorns grow," is well exemplified. In 1856 when that portion of West Philadelphia now denominated as the 52nd street district, was a practical wilderness, Robert Craig started the

nucleus of this immense business, at 49th and Market streets. Starting with one house 50 ft. long, right by his dwelling, as was the custom of florists at that period, by strict attention to his business and a perfect knowledge of his profession, Mr. Craig had the pleasure of seeing his original plant expand and expand, until the nursery finally took in four city blocks, with 75,000 feet of glass. Among the new things being pushed now are the John Wanamaker fern and Ficus Craigii, for which the demand is very lively. The Craig business has developed so as to require at times the services of 75 to 100 expert packers, under the direction of Joe Hetherington, who has been with them since 1882, shipping over 6,000 cases a year to various parts of this country. There is comparatively little left of the original plant at 49th and Market streets, it being used practically as a receiving and shipping station of the Norwood Nurseries. The quaint old houses of 1856, together with some of the later houses are still retained, but there is little if any selling here, with the exception of one house which they still retain as a retail flower market during May to July.

NEW CORPORATIONS.

Arlington, Mass.—Rawson Conservatories, Inc., capital stock, \$75,000. Incorporators, Guy Q. Ham, Wm. H. Taylor, 53 Farragut Road, Boston, and G. A. Ham.

St. Louis, Mo.—Foster, the Florist Company, 8th and Olive streets. Capital stock \$2,500. The shareholders are J. H. Vette, 23 shares; Frank Alwoel, one share; Fred J. Foster, one share.

DECORATION DAY.

Do you know what it means, you boys and girls,
Who hail from the North and the South,
Do you know what it means—
This twining of greens
Round the silent cannon's mouth?
This strewing with flowers the grass-grown grave,
This decking with garlands the statues brave;
This flaunting of flags,
All tatters and rags;
This marching and singing,
These bells all a-ringing;
These faces grave and these faces gay,
This talk of the Blue and this talk of the Gray,
In the North and the South. Decoration Day?

Not simply a show-time, boys and girls,
Is this day of falling flowers;
Not a pageant, a play,
Nor a holiday
Of flags and floral bowers;
It is something more than the day that starts
War memories a-throb in veteran's hearts;
For across the years,
To the hopes and the fears,
To the days of battle,
Of roar and of rattle—
To the past that now seems so far away,
Do the sons of the Blue and the sons of the Gray
Gaze hand clasping hand Decoration Day.

For the wreck and the wrong of it, boys and girls,
For the terror and loss, as well,
Our hearts must hold
A regret untold,
As we think of those who fell.
But their blood, on whichever side they fought,
Remade the nation and progress brought!
We forget the woe,
For we live and know
That the fighting and sighing,
The falling and dying,
Were but steps toward the future—the martyr's way!
A-down which the sons of the Blue and the Gray
Look, with love and with pride, Decoration Day.

—E. S. B. in Boston Transcript.

A Florist's
Necessity

HART'S HANDY HANDLE

Fits securely on any standard pot and by the use of a little chignon or ribbon gives you a Basket effect at a very small additional expense, increasing the price of your plants 100 per cent.

1	12 inches high, \$2.50 per doz.	4	24 inches high, \$5.00 per doz.
2	15 " " 3.50 " "	5	30 " " 6.50 " "
3	18 " " 4.00 " "	6	36 " " 9.00 " "

At Your Dealer's or Direct.

GEO.B. HART, Manufacturer, 24 to 30 Stone Street, Rochester, N.Y.

FOR DECORATION DAY
NEW CROP
DAGGER FERNs

5000 FOR \$10.00

Long Ferns—Extra Fine

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

TRY

Horticulture's Advertisers

FIRST

Before Looking Elsewhere

**Tell Them You Did So And
They'll Reciprocate**

**EDWARD REID
WHOLESALE FLORIST**

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

**REED & KELLER
Florists' Supplies**

122 West 25th St., New York

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHHMOND, IND.

Please mention Horticulture when writing.

**MICHIGAN CUT FLOWER
EXCHANGE, Inc.**

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

Telephone 2860 Madison Square

WOODROW & MARKETOS

WHOLESALE

Plantsmen and Florists

37 and 39 West 28th St., NEW YORK



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from
leading growers

Full line of Florists'
Supplies

Write for quotations before
ordering elsewhere

**226 DEVONSHIRE ST.,
Telephone, Main 6267-6268**

BOSTON, MASS.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON May 25		ST. LOUIS May 22		PHILA. May 22	
Roses						
Am. Beauty, Special.....	15.00	to 25.00	15.00	to 25.00	20.00	to 25.00
" " Fancy and Extra.....	10.00	to 15.00	6.00	to 10.00	10.00	to 15.00
" " No. 1.....	1.00	to 6.00	1.00	to 5.00	2.00	to 8.00
Russell, Hadley.....	4.00	to 12.00	5.00	to 12.00	3.00	to 16.00
Killarney, Richmond, Hillingdon, Ward, Extra.....	6.00	to 10.00	4.00	to 6.00	6.00	to 10.00
" " Ordinary.....	3.00	to 6.00	2.00	to 3.00	2.00	to 4.00
Arenburg, Radianca, Taft, Key, Extra.....	6.00	to 18.00	.....	.....	6.00	to 10.00
" " Ordinary.....	3.00	to 6.00	.....	.....	2.00	to 5.00
Ophelia, Mock, Sunburst, Extra.....	6.00	to 12.00	6.00	to 8.00	6.00	to 10.00
" " Ordinary.....	3.00	to 6.00	3.00	to 4.00	2.00	to 5.00
Carnations, Fancy	6.00	to 8.00	.....	.....	3.00	to 5.00
" " Ordinary.....	4.00	to 5.00	.75	to 1.00	2.00	to 3.00
Cattleyas	40.00	to 50.00	30.00	to 40.00	25.00	to 60.00
Dendrobium formosum	.....	to 15.00	.....	.....	.....	.....
Lilies.....	6.00	to 8.00	4.00	to 5.00	6.00	to 8.00
Lily of the Valley.....	2.00	to 5.00	3.00	to 4.00	1.00	to 5.00
Daisies.....	1.00	to 5.00	.25	to .35	.40	to 1.00
Mignonette.....	2.00	to 4.00	3.00	to 4.00	.....	.....
Snapdragon.....	4.00	to 8.00	3.00	to 4.00	8.00	to 10.00
Peonies.....	4.00	to 8.00	4.00	to 6.00	5.00	to 8.00
Gladioli.....	6.00	to 8.00	4.00	to 6.00	8.00	to 8.00
Calendulas.....	1.00	to 2.00	2.00	to 3.00	2.00	to 3.00
Stocks.....	3.00	to 5.00	2.00	to 4.00	1.00	to 3.00
Sweet Peas.....	.50	to 1.00	1.00	to 3.00	.50	to 1.00
Geraniums.....	12.00	to 20.00	10.00	to 20.00	3.00	to 15.00
Adiantum.....	.....	to 1.00	1.00	to 1.25	.....	to 1.00
Smilax.....	18.00	to 25.00	19.00	to 20.00	20.00	to 25.00
Asparagus Plumosus, & Spruce (100 Bchs.).....	25.00	to 35.00	25.00	to 50.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELLICOTT ST. - - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER OF

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

Flower Market Reports

A synopsis of this week's **BOSTON** market conditions is scarcely indicative of the true state of affairs, for while business has been fairly brisk there has been an undertone of calmness which usually precedes a storm. With the possible exception of roses there is an appalling shortage of all flowers, and there are none too many roses, if the supply be carefully compared with the demand. First-class whites are bringing record prices, and short lengths in red are unusually busy. Short Beauties have taken a rise from last week's slump and the entire rose market is striving to adjust itself to the sharp falling off in the shipments from the growers. Carnations are even scarcer. Retailers report a constant demand for peonies, and the wholesalers have been forced to call upon the Philadelphia markets to fill their orders. Snapdragons are fairly active with sweet peas a shade better. More than one grower will be forced to admit his crop of feverfew a failure, at least as far as the holiday is concerned, for at present it is far behind schedule. Stocks are coming in goodly quantities and they form an old standby for this particular day. Spirea has not made its appearance yet and is being eagerly awaited. The Darwin tulip is the only bulbous flower to be obtained. Present indications point to an unparalleled volume of Decoration Day business and if the all-powerful sun will but shine for the next few days Boston may expect a record sales-total. Darwin tulips are quoted at \$3.00 to \$4.00 and Spanish iris at \$6.00 to \$8.00.

For the past week cold **BUFFALO** drizzly days and heavy rains has shortened up the stock and there is a scarcity on some lines, especially carnations. Demand was heavy and this helped the rose situation. Lilies are now growing less each day, also callas, and there are not too many outdoor flowers. Some fine Darwin tulips are had and these sell up quickly. Lily of the valley is scarce and high. Beauties are only fair in quality, but other roses are fine. Indications again point toward a heavy Memorial Day.

Warm, bright weather is bringing forward a fine lot of stock of every seasonable kind. The peony crop this week is in full swing and drifting steadily into the cold storage vaults. Some are coming in too far open, but the greater proportion of the stock is being received in fine condition. Roses are all that could be desired, with every kind in good supply. Carnations are all that the growers could ask, with Memorial Day just a week off, and it looks now as if these favorites of this holiday are to be in enormous supply. Of miscellaneous stock there is much to choose from and the buyer on the spot has a wide range, with every known color of sweet peas in quantity, extra fine snapdragons, irises, calendulas, etc. The difficulties in the way of shipping out by express are temporarily working to the advantage of the local buyers, but it is expected that the troubles of the express companies will soon be adjusted.



FOR THE JUNE GIRL A PEONY DECORATION

Light pink and white we have them in unlimited quantities, also plenty of the other shades, all splendid quality, the newer varieties.

\$3, \$4, \$5, \$6 per 100

VALLEY\$5.00, \$6.00 per 100
SWEET PEAS\$1.00, \$1.50 per 100
CATTLEYS\$5.00, \$6.00 per doz.

EVERYTHING IN RIBBONS FOR THE JUNE GIRL

S. S. PENNOCK-MEEHAN CO.

The Wholesale Florists of Philadelphia

PHILADELPHIA NEW YORK BALTIMORE WASHINGTON
1608-1620 Ludlow St. 117 W. 28th St. Franklin & St. Paul Sts. 1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI May 22		CHICAGO May 25		BUFFALO May 22		PITTSBURG May 8	
Roses								
Am. Beauty, Special.....	35.00	to 40.00	30.00	to 35.00	20.00	to 25.00	20.00	to 25.00
" " Fancy and Extra.....	25.00	to 30.00	20.00	to 30.00	15.00	to 20.00	10.00	to 15.00
" " No. 1.....	15.00	to 20.00	6.00	to 15.00	8.00	to 10.00	6.00	to 8.00
Russell, Hadley.....	8.00	to 15.00	3.00	to 20.00	6.00	to 8.00	4.00	to 12.00
Killarney, Richm'd, Hill'don, Ward	8.00	to 12.00	8.00	to 10.00	4.00	to 6.00	6.00	to 12.00
Ord.....	4.00	to 6.00	3.00	to 6.00	3.00	to 4.00	.....	to 4.00
Arenburg, Radiance, Taft, Key, Ex.	8.00	to 12.00	8.00	to 12.00	6.00	to 8.00	6.00	to 12.00
Ord.....	4.00	to 6.00	4.00	to 8.00	3.00	to 4.00	.....	to 4.00
Ophelia, Mock, Sunburst, Extra ...	8.00	to 12.00	8.00	to 12.00	6.00	to 8.00	6.00	to 12.00
Ordinary.....	4.00	to 6.00	4.00	to 5.00	3.00	to 6.00	.....	to 4.00
Carnations, Fancy.....	3.00	to 4.00	5.00	to 6.00	3.00	to 4.00	4.00	to 6.00
Ordinary.....	2.00	to 3.00	3.00	to 4.00	2.00	to 3.00	2.00	to 3.00
Cattleyas.....	40.00	to 50.00	50.00	to 75.00	40.00	to 50.00	60.00	to 75.00
Dendrobium formosum.....	.....	.....	.....	.....	.....	.....	.....	.....
Lilies.....	10.00	to 12.00	8.00	to 12.00	.....	.....	.....	.....
Lily of the Valley.....	.....	to 5.00	3.00	to 5.00	5.00	to 6.00	4.00	to 5.00
Daisies.....	.....	.....	1.50	to 2.00	1.00	to 2.00	1.50	to 3.00
Mignonette.....	.....	.....	4.00	to 6.00	2.00	to 3.00	3.00	to 4.00
Snapdragon.....	6.00	to 10.00	6.00	to 8.00	3.00	to 6.00	4.00	to 8.00
Peonies.....	4.00	to 6.00	4.00	to 8.00	4.00	to 6.00	.....	.....
Gladioli.....	4.00	to 8.00	3.00	to 10.00	.....	.....	.....	.....
Calendulas.....	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00	2.00	to 4.00
Stocks.....	2.00	to 4.00	3.00	to 5.00	.....	.....	.....	.....
Sweet Peas.....	.50	to 1.00	.50	to 1.50	.50	to 1.50	.50	to 1.50
Gardenias.....	.....	.....	.....	.....	10.00	to 25.00	.....	.....
Adiantum.....	.....	to 1.00	1.00	to 1.25	1.00	to 1.25	1.00	to 1.25
Smilax.....	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00
Asparagus Plu. & Sprer. (100 Bhs.)	25.00	to 50.00	25.00	to 50.00	40.00	to 50.00	30.00	to 50.00

There is a noticeable falling off in the receipts of most staple flowers in the wholesale market but the demand has been slow and there is plenty of material for all comers. Decoration Day trade is always an enigma in this market until it has transpired and much of the result depends upon the calls that come from points North and East where, in some years, the outdoor crop of desirable flowers for cemetery use is too late for the occasion. Indications this season are that there will be a market for everything that comes in time for out of town calls and prices on some things are already stiffening up in anticipation. Never has the quality of material in all lines been better, the cool weather and slow growth being conducive to the production of sturdy substantial blooms. The dealers in greens are very busy all of the present week.

The continued **PHILADELPHIA** cool weather here for the past ten days has kept the flower market in a very healthy condition. Stocks generally all along the line have been coming in rather scantily. Carnations

especially have been on the short side and prices firmed up quite a little. Sweet peas are also scarce. It seems a sort of "between wind and water" with these—the indoor about over and the outdoor only just commencing. The market on roses kept steady and there was no over supply. In the American Beauty and Russell class the higher grades are most in evidence. In Killarneys and others of that type there is a fair supply of all grades. Indoor lily of the valley went still higher notwithstanding the big influx of very nice outdoor stock offered at very reasonable prices. Blue cornflower is more in evidence than it has been so far this season. There are no local peonies as yet (22nd) and unless we have a few hot sunny days right off our nearby growers will miss their usual Memorial Day market—which is about their only chance. If they miss that there is little in it for them. We hope the weather man will relent and be good.

May weddings seem to have come into their own, as it were, and together with continual excessive demands in funeral work, are

(Continued on page 74)

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

MOORE, HENTZ & NASH

Wholesale Commission Florists

55 and 57 West 26th Street
Telephone No. 754
Madison Square **New York**

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.
Call and inspect the Best Establishment
in the Wholesale Flower District.

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CONSIGNMENTS SOLICITED

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WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7363 Madison Square

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Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmette, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.

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Brooklyn's Foremost and Best

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FINE ROSES, FANCY CARNATIONS

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Wholesale Commission

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NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS

	Last Half of Week ending May 20 1916		First Half of Week beginning May 22 1916	
American Beauty, Special	12.00	to 15.00	15.00	to 20.00
" " Fancy and Extra	8.00	to 12.00	6.00	to 12.00
" " No. 1	3.00	to 6.00	3.50	to 6.00
Russell, Hadley	1.00	to 12.00	1.00	to 12.00
Killarney, Richmond, Hillingdon, Ward, Extra Ordinary	3.00	to 6.00	3.00	to 6.00
Arenburg, Radiance, Taft, Key, Extra Ordinary	1.00	to 3.00	1.00	to 3.00
Ophelia, Mock, Sunburst, Extra Ordinary	3.00	to 6.00	3.00	to 6.00
Carnations, Fancy	1.00	to 3.00	1.00	to 3.00
Ordinary	2.00	to 3.00	3.00	to 4.00
	1.00	to 2.00	1.00	to 2.00

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CHOICE CUT FLOWERS

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436 6th Avenue, Between 26th and 27th Sts., New York

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Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
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NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK

WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13-8510 Madison Square

Consignments Solicited

MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 737)

creating a demand for cut flowers, which is well-nigh impossible to supply. Not in a long time have flowers of all kinds been as scarce, and accordingly as high in price. Long-stemmed roses are practically the only ones obtainable, all others being relatively "out of sight." Home grown peonies are as yet only a vision with an accompanying fervent hope of realization. Practically all that are on the market now come from the South. Landscape and bedding work has never been as good, owing undoubtedly to the exceptional financial prosperity hereabouts. Both city and suburban florists and landscape engineers and gardeners alike affirm that they have never had as busy a season.

Business has been **ST. LOUIS** hardly up to the usual standard. The growers are all busy with plants. Stock of anything is in large supply and of extra good quality. It has taxed the capacity of the wholesalers all week. Prices are low and the poor stock has little chance of being sold. Out of door stock and cape jasmine buds from Texas add to the congestion.

Business continues **WASHINGTON** to be very good. Stock is very plentiful with the exception of lily of the valley and orchids. There is an over-abundance of peonies. The shipping business on peonies to the northern markets is very good, enabling these flowers to maintain a fair price. Carnations are in heavy supply but are cleaning up well, and there has been a good market for roses of all kinds. There is a heavy supply of gardenias. Sweet peas are again coming in good and are in fair demand. Gladioli are very plentiful and good. Snapdragon is being used to some extent in many dinner decorations.

VISITORS' REGISTER.

Boston—Samuel Burns, representing William H. Lutton Co., Jersey City, N. J.

Chicago—Mrs. H. W. Buckbee, Rockford, Ill.; Paul Berkowitz, repr. H. Bayersdorfer & Co., Phila.

St. Louis—Martin Reukauf, repr. H. Bayersdorfer & Co., Phila.; Julius Dillhof, New York; J. W. Meyer, Cherryvale, Kansas.

Philadelphia—L. S. Baker, Allentown, Pa.; E. Gurney Hill, Richmond; Alex. Cumming, Center Square, Pa.; Dr. Peter H. Lane, Moosehead Lake, Maine; Arthur Kleinhans, Easton, Pa.; Chas. W. Uttley, Harrisburg, Pa.

Washington—S. Dernison, New York; John Radder, Boskoop, Holland; Samuel S. Pennock, Phila.; Antoine Wintzer and Robert Pyle, West Grove, Pa.; F. B. Michell, Phila.; D. M. Dunning, Auburn, N. Y.; J. H. McFarland, Harrisburg, Pa.; Admiral Aaron Ward, Roslyn, N. Y.; E. Allen Peirce, Boston, Mass.

Robert M. Smith has been made manager of the store of Kopp, the Florist, 1766 Broadway, Brooklyn. He was formerly with Guttman & Raynor, the New York wholesalers.

We are WHOLESALE FLORISTS

We handle every variety of cut flowers. We have 22 years' experience behind us, and we do not expect a gold medal for doing our full duty by our consignors and customers. You cannot go very far wrong when dealing with us.

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101 West 28th Street, NEW YORK

Phones 2036, 2037, 558 Farragut

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

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American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending May 20 1916		First Half of Week beginning May 22 1916	
Cattleyas.....	25.00	to 35.00	25.00	to 35.00
Dendrobium formosum.....	20.00	to 25.00	20.00	to 25.00
Lilies.....	3.00	to 5.00	3.00	to 5.00
Lily of the Valley.....	1.00	to 3.00	1.00	to 3.00
Daisies.....	.50	to 1.00	.50	to 1.00
Mignonette.....	2.00	to 3.00	2.00	to 3.00
Snapdragon.....	2.00	to 8.00	2.00	to 8.00
Peonies.....	4.00	to 6.00	4.00	to 6.00
Gladioli.....	4.00	to 6.00	4.00	to 6.00
Calendulas.....	1.00	to 2.00	1.00	to 2.00
Stocks.....	2.00	to 3.00	2.00	to 3.00
Sweet Peas.....	.25	to .75	.15	to .75
Gardenias.....	4.00	to 15.00	8.00	to 15.00
Adiantum.....	.50	to 1.00	.50	to 1.00
Smilax.....	12.00	to 20.00	12.00	to 20.00
Asparagus Plumosus, & Spreng (100 bunches).....	15.00	to 25.00	15.00	to 25.00

I Can Sell Them For You!

I have an unlimited market for your flowers, any variety, in any quantity. Prompt returns of sales on consigned goods. Ready cash when due. A clean record of twenty-eight years in the Cut Flower Commission Business.

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110 West 28th St., New York
We Solicit Consignments of New
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Flowers Sold on Commission
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Experienced, Progressive and can handle
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NO DESIGNS MADE UP

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Advertisements under this head, one cent a word. Initials count as words.

Display advertisements in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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R. Dyer, 40 St. Louis, Mo.
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APHINE

Aphine Mfg. Co., M. J. N. J.
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APHIS PINK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS

W. H. I. Co., Brighton, Mass.
Asparagus Plants, N. J. Seeds.
For page see List of Advertisers.
Asparagus Plummeria Seed, \$5.00 per 1000. Ready May 1st. COLLINGDALE GREENHOUSES, Collingdale, Pa.

AUCTION SALES

The M. N. H. Co., New York City.
For page see List of Advertisers.

Elliott Auction Co., New York City.
Plant Auctioneers.
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AZALEAS

P. Ouwerkerk, Hoboken, N. J.
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A. Hans, Woburn, Mass.
K. J. Kuyk, Ghent, Belgium.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

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BAY TREES. Write for wholesale price list.
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BEDDING PLANTS

A. M. Davenport, Watertown, Mass.
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A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

A. Leuthy Co., Roslindale, Mass.
For page see List of Advertisers.

C. C. Trepel, Brooklyn and New York, N. Y.
For page see List of Advertisers.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

Delivery from May 15th.
Lorraine, 2 1/2 in. pots, \$12.00 per 100; Cincinnati, 2 1/2 in. pots, \$15.00 per 100; Mrs. J. A. Peters, New York, N. Y., \$25.00 per 100; \$30.00 per 100.
JULIUS ROEHRS CO., Rutherford, N. J.

BOILERS

Kingsley Boilers Co., N. Y.
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King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

Hitchings & Co., New York City.

BONES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

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BOX TREES—Standards, Pyramids and Bush. Price 1st on demand.
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Bremond Freres, Ollioules Var., France.
Agent, Jacques Courtine, New York City.
French Bulbs.

For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Gladliol.

For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
Lily Bulbs.

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John Lewis Childs, Flowerfield, L. I., N. Y.
Gladliol.

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August Rolker & Sons, New York City.
Forcing Bulbs and Plants.

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R. & J. Farquhar & Co., Boston, Mass.
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Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
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A. Henderson & Co., Chicago, Ill.
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Burnett Bros., 98 Chambers St., New York.
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Henry F. Mitchell Co., Philadelphia, Pa.
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Joseph Breck & Sons Corp., Boston, Mass.
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W. E. Marshall & Co., New York City.
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Arthur T. Boddington Co., Inc., New York City.
Japan Lily Bulbs.

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Fottler, Fliske, Rawson Co., Boston, Mass.
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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK Branch, 8-10 Bridge St.

CARNATIONS

Cottage Gardens Co., Inc., Queens, N. Y.
New Carnation Cottage Maid.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

F. Dörner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

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Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 25¢; 2000 for \$1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CANNAS

John Lewis Childs, Flowerfield, L. I., N. Y.
Canna Roots.
For page see List of Advertisers.

CANNAS—Continued

Rowan J. Irwin, New York City.
For page see List of Advertisers.

Newest list of the newest Cannas just out. Complete assortment of the finest sorts, at remarkable rates.

Send for list today

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West Grove, Pa.

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R. Vincent, Jr. & Sons Co., White Marsh, Md.

Pompon Chrysanthemums.
For page see List of Advertisers.

Elmer D. Smith, Adrian, Mich.

New Chrysanthemum Catalogue for 1916.
For page see List of Advertisers.

W. H. Elliott, Brighton, Mass.

Guttman & Rayner, Inc., New York City.
Early Lavender Pink Chrysanthemum.
Alex Guttman, also Emma, a Garza.
Anemone, Double Pompon, pale pink.

CYCLAMEN

CYCLAMEN. Best strain. Separate colors or mixed, 3 in. pots, \$8.00 per 100, for May delivery.

JULIUS ROEHRS CO., Rutherford, N. J.

DAHLIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.

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Send for Wholesale List of Whole clumps and separate stock; 40,000 clumps for sale. Northboro Dahlia and Gladiolus Gardens. J. L. MOORE, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

IF YOU INTEND growing Dahlias for cut flowers then you will make no mistake if you will try my assortment, especially selected for cut flower production. Three whites, 3 pinks, 1 red, 1 yellow, 1 lavender, 1 fancy; all field roots, labeled true to name; per 100, 10 of each kind, \$3.00; per 100, 100 of each kind, \$25.00. 60 at 100 and 500 at 1000 rates. Cash with order. Guarantee entire satisfaction. If interested in Dahlias, then please send for my wholesale trade list of Dahlias.

MANNETTO HILL NURSERIES, W. A. FINGER, Prop., Hicksville, N. Y.

DECORATIVE PLANTS

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Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists.
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A. M. Davenport, Watertown, Mass.
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DRACAENAS

Dracaena Indivisa, nice plants, 4 in., \$10 and \$15 per 100; 5 in., \$20 and \$25 per 100. Cash. CHAS. H. GREEN, Spencer, Mass.

FERNS

H. H. Barrows & Son, Whitman, Mass.
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GERANIUMS

- R. Vincent, Jr. & Sons Co.
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- Geraniums out of 3½ inch pots, \$7.00 per 100. Cash please. LEONARD COUSINS, JR., Concord Junction, Mass.
- S. A. Nutt, R. C., \$10.00 per 1000; 3 in., \$5.00 per 100; 4 in., \$8.00 per 100. FRANK LEITH & SON, Haverhill, Mass.

GLADIOLI

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- Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

GLAZING POINTS

- H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
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GOLD FISH

- Gold fish, aquarium plants, snails, castles, globes, aquarium, fish goods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

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Wanted.
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ORCHID FLOWERS

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In writing to Advertisers kindly mention Horticulture

ORCHID PLANTS

Julius Roehrs Co., Rutherford, N. J.
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Sander & Sons, Ltd., London, England
Walter Gutt, McAlister, N. Y. City.
Book of Orchid Hybrids.

Lager & Hurrell, Summit, N. J.

PALMS

A. Lantieri Co., Rossmore, Mass.
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PANSY PLANTS

500,000 PANSIES

Field Grown—In Bud and Bloom—Mixed Colors

There is no better strain for commercial purposes than my Superb Strain Pansies, grown from seed of my own raising, and the result of over 20 years' careful breeding. Send a trial order and be convinced. Fine, large plants, \$1.25 per 100; \$10.00 per 1000. Some extra large plants, \$15.00 per 1000. Largest Grower of Pansies for the Trade in the United States. Cash with order. By express only.

LEONARD COUSINS, JR.,
Concord Junction, Massachusetts.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
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PHOENIX CANARIENSIS

In all sizes. Special price-list on demand.
JULIUS ROEHRS CO., Rutherford, N. J.

PEONIES

Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
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PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
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McHutchison & Co., New York City.
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PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

RAFFIA

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Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mine, Paul Euler)

THE CONARD & JONES COMPANY.
Rose Specialists.
West Grove, Pa. Send for offers.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh, Md.
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SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
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SPHAGNUM MOSS

New England Florist Supply Co.,
Boston, Mass.
Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGER & HURRELL, Summit, N. J.

STRAWBERRY PLANTS

STRAWBERRY PLANTS, leading varieties, by mail or express prepaid. Also raspberry, blackberry, gooseberry, currant, grape, asparagus plants and fruit trees. Catalogue free. HARRY E. SQUIRES, Remsenburg, N. Y.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet Peas.
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TREE SURGERY

The Davey Tree Expert Co., Kent, Ohio.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
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VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
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Celery Plants: Golden Self-Blanching (French strain); fine plants, ready now; \$2.00 per 1000. Cash. Special prices on large lots. BRILL CELERY GARDENS, Kalamazoo, Mich.

VEGETABLE PLANTS by mail or express prepaid. Cabbage, sweet potato, tomato, cauliflower, celery, beet, lettuce, pepper, egg plants. Catalogue free. HARRY E. SQUIRES, Remsenburg, N. Y.

VENTILATING APPARATUS

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VERMICIDES

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VINCAS

13,000 Vinca Var., out of 4 inch pots, \$12.50 per 100. Cash please. LEONARD COUSINS, JR., Concord Junction, Mass.

Vinca Var., 4 in., heavy, \$12.50 per 100; good, \$10.00 per 100; extra heavy, \$15.00 per 100. WILLIAM CAPSTICK, Auburndale, Mass.

WEED KILLER

Pino-Lyptol Chemical Co., New York City.
Pino-Lyptol Weed Killer.
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New Offers In This Issue**ASPARAGUS PLUMOSUS NANUS.**

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TO THE HEART OF LEISURELAND.

Hudson Navigation Co., New York City.
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NEW BOOK**JUST ISSUED****Plant Propagation Greenhouse and Nursery Practice** By M. G. KAINS

So many discoveries of new facts by plant investigators, shortcuts and "wrinkles" worked out by plant propagators, and nursery, greenhouse and garden methods simplified or made more effective, have made books hitherto available on plant propagation out of date.

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Illustrated 5½x7½ inches. 342 pages. Cloth. Price, net, \$1.50.

HORTICULTURE PUBLISHING CO.
147 Summer St., Boston, Mass.

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Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 147 Summer St., Boston.

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ONE OF THE LARGEST WHOLESALE SEED HOUSES HAS SOME GOOD EASTERN TERRITORY FOR A LIVE WIRE REPRESENTATIVE, ONE WHO CAN BRING GOOD TRADE WITH HIM AND IS A GOOD STEADY HARD-WORKING REPRESENTATIVE. WRITE IN STRICT CONFIDENCE GIVING FULL PARTICULARS. ADDRESS T. W. B., CARE "HORTICULTURE."

WANTED—An intelligent middle aged man who understands propagating, potting and general commercial greenhouse work. A good permanent job awaits the right man. Address "B," care HORTICULTURE.

WANTED—First class greenhouse man to take charge of four houses, each 150 ft. long. Good wages to the right man. Write, enclosing references. J. L. PORTER, care Percival Roberts, Jr., Narberth, Pa.

WANTED experienced person to take charge of retail florist department. State age, experience and salary. Male preferred. Address "New," care Horticulture Pub. Co.

SITUATIONS WANTED

SITUATION WANTED as outside foreman on large, private estate. Wages, \$60; board, room. "G. D.," Care HORTICULTURE.

MISCELLANEOUS

WANTED TO RENT, with privilege of buying, 10,000 to 20,000 ft. of glass with dwelling house. Massachusetts state preferred. State full particulars in first letter. Address "T.," care HORTICULTURE.

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The unique monthly publication which furnishes reliable and interesting up-to-date information regarding the value of pecans and other edible nuts and how to grow them for profit.

Subscription, \$1.00 per year

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WAYCROSS, GA.

In writing to Advertisers kindly mention Horticulture

THE RED SPIDER

(An Address by Parker Thayer Barnes before the Florists' Club of Philadelphia, May 2, 1916.)

The red spider is a pesky pest with which every person who grows plants under glass has a tussle sooner or later, usually sooner. It also gives much trouble at times to shade and even fruit trees. There really seems to be no limit to which its ramifications extend.

The red spiders are mites. They belong to the great class of Arachnida (A-rach'ni-da) to which spiders, scorpions and the daddy-long-legs belong. They bear to the more highly developed and complex insects, such as the moths and flies, a position somewhat similar to that of the ferns to flowering plants, although this is rather a poor simile.

The red spider is not a new insect in any way one may look at it. New species are being found from time to time but that is because but few specialists have worked on this branch of the animal kingdom, and they are so much alike that it is really hard to distinguish them. They have four pairs of legs, only three when born, but the other pair develops while they are young.

They winter over outside under stones and in leaves and other rubbish and when warm weather returns—about the time the leaves appear—climb the trees or other plants and start laying eggs. Each female can lay from five to ten eggs a day for a period of eight to twelve days. In five days they become adults. Brood after brood is produced all summer—but wet weather sometimes interferes.

Much the same conditions exist in the greenhouse except that the spiders do not hibernate because it is warm there the year around.

The mites do not travel fast except when disturbed; ordinarily they move slowly, and for a greater portion of the time they are stationary, sucking the sap from the leaf on which they are resting. The removal of the sap from the cell causes the cell to dry out and die which gives it that peculiar look always associated with a severe attack. A similar appearance is caused in the fruit trees sometimes by a little leafhopper.

The genus of mites which contains the common red spider is *Tetranychus* and all the members of this genus spin a very fine thread. In severe attacks these threads are so abundant as to form a web, either upon the upper or lower surfaces of the leaves or covering the branch or a number of leaves. I have seen this occur in greenhouses where things were allowed to run in a haphazard way. The use of this web nobody seems to understand. It affords no protection to the mites. Dr. Bailes suggests that its chief use is to hold the eggs while

another scientist suggests that it keeps them from falling off the plant while they are molting. Experiments have proven that it does not in any way serve to aid their progress.

The spinning organs which produce this web are supposed to be situated in the head, the threads coming out through the palpi or feelers, but some very delicate dissection work under a high-powered microscope is still necessary to locate the red spider's spinning.

The common species of the greenhouses is *T. bimaculatus*. It is supposed to be red in color but any one who has ever examined them under a hand lens knows that some of them have a washed out color, much like the crushed strawberry colored shirt that has gone through the laundry. But the color does not vary in a colony; all of one colony are the same shade of color.

This species is by no means confined to greenhouses as I have already intimated nor to our northern climate. It is common in the south, at first on violets but it has now spread from this humble plant to the cotton plant. On this it works such damage that it has been necessary for the Federal Bureau of Entomology to detail men to learn how it can be easily and cheaply combated. In California it has threatened the hops crop and again the government has come to the aid of the beer drinkers and saved the backbone of their staple beverage. From this you can see that the grower of plants under glass is not the only sufferer from the mites or red spider.

The orange groves of Florida and California are infested with a couple of species. It was a serious pest as far back as 1889, for the Report of the Entomologist of the U. S. Department of Agriculture of that year reports it as a menace to the crop.

A pale greenish species, *T. pratensis*, is abundant in the west on alfalfa and other crops. A bright red species *T. opuntiae* plays hide-and-seek on the prickly pears of Texas. A very short-legged short-haired European species is found on the spruce tree of Canada. Another species is common on the leaves of the oak and chestnut, and a comparatively newcomer from Europe is *T. pelousei* which much prefers the fruit trees of our orchards. The European plum seems to be the favorite food plant of this species.

The array of species is no doubt uninteresting and to the average person a red spider is a red spider and just as much of a pest as Elias Butler Parker's guinea pigs of "Pigs is Pigs" fame.

How are we to get rid of them? That's the question and I suppose it was upon this point that our friend Watson hung the word explosion "A Red Spider Explosion." He thought that maybe I would blast all your preconceived ideas about the subject of red spiders.

The first thing I learned about red spider while serving my novitiate in

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the greenhouse was that as the cold of winter begins to strengthen making hard firing necessary, with the resulting drier air the red spider commenced to flourish and so we all believed that an arid condition was congenial to the red spider. I suppose it is in a measure, but it is not absolutely necessary. Last summer was far from being a dry summer, there were no long droughts in it, and yet I found red spider infesting shade trees in the vicinity of Harrisburg to such an extent that the trees had lost their green color, and had taken on a greyish or brownish color which gave them the appearance of much road dust having settled upon their surfaces.

We were taught that water was the only specific. It will wash them off, but do they have time to drown before the water has drained away from the soil where they fell under the plant, and so are they or are they not ready to crawl back on the plant. I do not know. I have not had sufficient time to watch them to find out.

Sulphur is the one best bet with which to fight the pest. You can blow it on by means of a blow gun; you can use lime-sulphur wash such as is used to kill the San José scale on the fruit trees, but of course, very much weaker, or you can use potassium sulphite (Liver of sulphur) one-half ounce to the gallon of water. This last you will all probably recognize as a standard remedy for mildew on roses.

Instead of blowing the sulphur on you can spray it on. One pound of sulphur mixed in three gallons of water and just enough soap to make it stick is a standard remedy on fruit trees as a summer spray, but in the greenhouse I would use it much weaker at first to make sure of not burning the foliage.

Prof. S. T. Maynard reports having successfully killed the red spider in a house of grapes by boiling the sulphur but this is a rather dangerous and tedious method.

If I was called upon today to fight a case of red spider in a greenhouse or on fruit trees, I would do one of two things. The first thing would be to spray the plants with a flour paste. That sounds like a very reckless

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procedure but you will find the paste is so thinly spread out that once it dries you cannot see it.

Mr. W. B. Parker of the Federal Bureau of Entomology invented the flour paste method of fighting red spider while working on the hop problem on the Pacific Coast. It is made as follows and these directions are for use in the open but you can modify them and figure down the amounts for use in greenhouse practice.

"Use a cheap grade of flour; take eight pounds. Make the flour into a thin batter by adding a little cold water at a time until eight gallons of water are used. Mash out all lumps. Cook until a paste is formed, stirring constantly to prevent caking or burning. Cooking slowly until the paste just begins to boil will usually be about right. If the paste is not sufficiently cooked the resulting spray will not be effective, and if overcooked the paste will harden when thoroughly cool and will not mix with water very readily. Add cold water to the paste when done to make 100 gallons of material in the spray tank. Keep it constantly stirred while spraying. Apply thoroughly to both the upper and under surface of leaves. Use a nozzle making a coarse spray, and not under 150 pounds pressure, as the driving force is necessary to penetrate the webs and reach the spiders. A fine moist spray will not be effective. This is a contact insecticide and the liquid must actually touch the spider. The materials are cheap; apply liberally. Watch the plants carefully, and if newly hatched spiders are appearing repeat the spraying in about seven days. No spray will kill the eggs without injuring the vines."

I have used this spray against red spider on plum trees in the Pittsburgh district and it worked, and I see no reason for its not working in the greenhouse. It is cheap and effective and will not in any way damage the foliage or flowers. We used Red Dog flour when making our paste. This is a cheap brand of flour that is a favorite food for hogs, and my recollection is that it cost us in actual cash outlay for material about seven cents a barrel (50 gallons) ready to apply to the trees.

We bought some potassium sulphide to try at this time, as this material had been very successful in the cotton experiments in the south, but the flour

paste was so effective that our experimenting stopped.

My one other safe bet would be sulphur, blowing on the dry sulphur; or I would use atomic sulphur. This latter is a paste of very finely divided sulphur manufactured and sold by the Thomson Chemical Co. at Baltimore. I have not used it because at Harrisburg we have no facilities for experimenting. This material is now used in large quantities as a fungicide on peach trees for the scab and brown rot. In California Prof. W. M. Scott tells me that it is used against the red spider on citrus trees and a great variety of plants with success. Use when you commence to experiment with this form of sulphur about one-half to three-fourths of a pound in ten gallons of water and a little soap, say one-fourth of a pound. Dissolve the soap before putting it in the solution. Soap acts both as a spreader and sticker.

I have spoken of lime-sulphur wash. I do not recommend it because it is violent stuff and there is danger of burning the foliage until more experimental work is done. Prof. R. D. Whitmarsh in a recent bulletin from the Ohio Exp. Station makes the following recommendation with regard to its use on violets: In 25 gallons of water mix one-half pint of Neco-fume and two quarts of concentrated lime-sulphur wash. I have no doubt that it will work like a charm but at that strength of lime-sulphur I am sure some kinds of stock grown under glass would rebel, for it is strong enough to burn peach foliage in the open.

PUBLICATION RECEIVED.

A Street Tree System for New York City. Bulletin of The New York State College of Forestry at Syracuse University. This publication is in the form of a report under date of February, 1916, by Prof. Laurie Davidson Cox to Park Commissioner Cabot Ward, Boroughs of Manhattan and Richmond. The contents comprise The Street Tree Problem in Manhattan, What Streets to Plant, Design in Street Tree Planting, Spacing and Arrangement, A Description of the Species Best Adapted for Manhattan Streets, Growing Conditions and Planting Methods, The Cost of Planting, with Standardized Planting Specifications, Organization and Budget, The Street Tree Census, and Street Tree Planting in Richmond. The pages are embellished with engravings and diagrams and several elaborate maps are bound in. There is an introduction by Hugh P. Baker. The volume is a valuable one, full of well considered suggestion and sound advice which anyone interested in this important subject of municipal adornment will find useful and instructive.



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Dr. George E. Stone, professor of botany at M. A. C., and for many years the Amherst tree warden, is about to publish a bulletin on shade trees which will be illustrated with pictures of typical trees. He believes that trees in New England have been seriously injured by the drouth of the seven years previous to this year. This drouth, he thinks, surpasses

in severity any that has occurred during the past 250 years. But he will rely most upon the evidence to be found by examining the rings in the stumps of the trees recently cut in the primitive forests of New England which had been growing for 200 years. These trees grew but little in years of drouth and much in rainy seasons and registered the fact by the concentric rings to be counted on the stump. Great elms and large pines are selected for the purpose.

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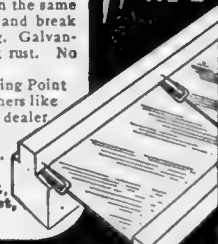
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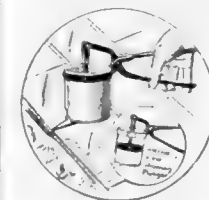
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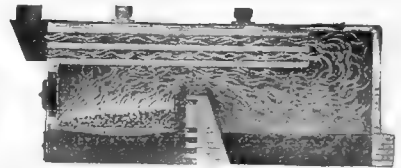
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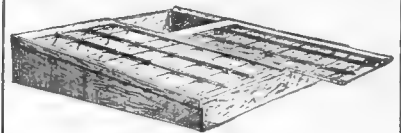
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NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—*Pope*.

Bouvardias

There is certainly an increasing demand for these old favorites. There was a time when they were to be found in almost every greenhouse. Bouvardias should now be planted out. Give them a mellow soil; a sandy loam is ideal. Do not crowd the plants. They should have at least 15 inches between the rows and a foot in the rows. See that they get a good watering after being planted and when the hot and dry weather comes don't neglect watering. To make the plants husky they should be pinched back two or three times during their stay in the field. If wanted in flower for the holidays don't pinch any after the middle of August and lift by the first week in September. Cultivating should be done every week to keep the soil mellow and especially during dry weather to keep the moisture in the soil.

Care of Young Primulas

Never give them a chance to get a check by being pot bound but keep shifting on into larger pots until their flowering size is reached. From a four-inch pot up they like a rich soil, and there is nothing better than good fibrous loam three parts, cow manure and leaf mold one part each. They should always have a cool bottom to stand on; there is nothing better than ashes for this purpose which can always be kept damp and cool. Grow them as cool as possible during the summer. From the first of June until the last of August they are better under a shade of building laths which can be put on as the sun begins to get strong in the morning and taken off late in the afternoon. Go over the frames two or three times a day, giving attention to watering and syringing. Give plenty of room between the plants.

Ericas

Most of the species have now done flowering and the next move is a severe cutting back of the plants. This should be done before the new growth starts too much. All the long canes and the old wood are cut away, merely leaving short stumps of one or two inches in length. Some of the soil is taken off and the plants go into new pots, which should be more wide than deep, like azalea pots. Plenty of drainage material should be placed in the bottoms. I have found well-fibred turf-like sandy soil, six months old, roughly broken up and mixed with a goodly quantity of spent hot-bed manure to be the best soil. Climatic conditions in most sections of

this country make erica culture difficult and risky. We have neither the soil nor the humid atmosphere in which they delight. Frequent syringing is essential, but in watering great care should be taken not to overdo it, or to let them become too dry at the roots as both have their bad points.

Feeding Orchids

Terrestrial orchids such as symbidiums, cypripediums, calanthes, pleiones, phaius, etc., will benefit in foliage and flower from an application of weak liquid manure water—that is, where they have plenty of working roots. It has now become well known that judicious feeding from now on will give these plants renewed vigor. For epiphytal orchids the Cookson formula would be better. This can be made with potassium nitrate three ounces and ammonia phosphate two ounces. Mix well together and place in a three gallon jar of water. When applying use one ounce of this mixture to a gallon of water about every ten days. All orchids will want plenty of moisture in the air from this out. Give them a spraying overhead in the mornings and right after dinner. Keep them clean by sponging occasionally.

Hydrangeas for Next Year

If hydrangeas have not been already propagated this should be done without delay. They will require twice the care as those that were done early. Take strong cuttings, leaving two or three joints to each one and trim the foliage up somewhat. Keep well shaded and moist for about four weeks and they should root without any trouble. When they have made roots about half an inch long get them out of the sand and pot them in 3-inch pots using fibrous loam three parts and well-decayed cow manure one part. Pot firmly and place outside in a frame and shade for three or four days, when they should stand full sun. Shift next into 5-inch pots, using a rich mixture. Keep well watered and syringed until the fall.

Start Cultivation

From this out keep the cultivator agoing once a week, if not twice a week. It will save a whole lot of labor later on, as well as being good for every crop grown outside. Putting off this work until crops are choked with weeds and also the surface of the ground all baked up makes it very hard to grow good crops, so cultivate now and often.

Next Week:—Miltonias; Preparing Compost for Carnations; Propagating Begonias; Poinsettias; Stock for Winter Flowering; Planting out Stevias.

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Our duty towards Houston

As in several previous issues, we present on another page in this number a street view in the city of Houston, Texas, and shall have other characteristic scenes frequently from now on until convention time next August. There are many excellent arguments in favor of this S. A. F. meeting in what is, to the great majority of S. A. F. members, a far distant southern city. Whatever reasons anyone may have had to doubt the wisdom of going so far away from the centre of membership and horticultural activity in two consecutive years, that is now a dead issue. The one duty now for everybody interested in

horticultural progress and in the organization which is its foremost exponent, is to do all that is possible towards assuring the success of the Houston Convention. This is what HORTICULTURE, as the paper most remote from the convention city, will endeavor to do and our columns are open for any and all matter conducive to that end during the coming weeks.

What Houston has a right to expect

Houston's opportunity and the Society's obligation, in this important and far-reaching event is to open up the prospect and inspire the people of the great Southland with an adequate realization of their horticultural advantages and possibilities. In the present chaotic state of affairs in those European countries from which so much of our horticultural material has hitherto been procured, Texas with her vast area and great variety of soil and climate has within her reach an opportunity in the realm of ornamental horticulture fully equal to that in the way of fruit and vegetable production to which her people have already begun to awaken. This, it seems to us, is the direction in which the florists of the Southwest, who will undoubtedly form the majority of the attendance, can make the best use of this great convention privilege which comes but rarely to any city. It would be a pity to use up the time and energy of an occasion so fortuitous in debates on matters more connected with the politics of the Society than with the vital horticultural welfare of the great community which has the right to expect so much from this visit of the national Society. On the other hand it would be equally a mistake, from the standpoint of the Society, to rush through without serious discussion the various proposed constitutional changes slated by the Executive Board for action this year. If all these matters relating solely to the internal functions of the organization could only be tabled until some future occasion so that the Society's avowed mission to the South might have full right of way, it would, in our humble opinion, be for the good of all concerned.

Seed purity and philanthropy

As we read the communication from W. W. Tracy which appears in another column of this paper we are impressed by the fact that no business in this country is more investigated, inquired into and held up than the seed business. The average seed buyer today wants the seedsman to be a philanthropist. He must make all sorts of sacrifices for years to get his seed to his customers 100 per cent. germination, 100 per cent. purity of type—this he is expected to do regardless of season, unfavorable harvests and other conditions entirely beyond his control, and yet to sell his wares which he turns once a year on a margin of profit as narrow as that made by the grocer who turns over his stock and capital in each one of the fifty-two weeks of the year. Mr. Tracy mentions that planters for the market demand that at least 90 per cent. of the plants from seed of a specified variety shall produce true to type, but there are plenty of buyers who will kick up a protest if they find 1 per cent. of inferior mixture. Unquestionably varietal purity is a quality of far greater importance than high germination percentage, but the market gardener is not willing to pay the price but expects to buy the refined article at a figure away below what it costs to produce it, and in the case of corn, for instance, below the wholesale price which the seedsman is obliged to pay for such carefully grown seed.

THE TRUTH REGARDING CALIFORNIA.

The settlers of California wear corns and they are tender and you must be careful how you step on them. There are "pros and cons" to every state and climate. There are those who are glad to have you give the "pros," but don't say anything about the "cons."

Southern California has probably the most delightful climate in the United States. Los Angeles is the magic city. She came into being when science and invention threw their treasures into her lap. It is the best paved city in the world. Many of her streets seem to be planed and sandpapered. Many parts of the city are of almost matchless beauty. The laurel, rubber, magnolia, and the large family of the palms, make splendid parks and delightful shade. Roses do well, except in winter when in many places they present a bedraggled appearance. We spent days riding through the city and the surrounding country. It seemed a land Elysian and much more attractive than shoveling snow at 20 below.

And yet paradise is a little further on. We were marooned in the beautiful city of Escondido—situated in one of the most charming valleys in America. I told the people there that with all the premiums they claimed they ought to get one on their weather, for they could raise more of it to the acre than anywhere on earth. People think they have a mild climate and build and dress accordingly. The fact is, we suffered much more from the cold than we ever did in our home in Nebraska. We hired a fair cottage of five rooms and in six weeks burned a cord and a half of wood, and had to keep up a fire every day, and then suffered with the cold. During that time we had eight frosts and about as many more nights it came as near frost as it dared to. I have seen the mercury 20 in the morning and 80 at 2 o'clock the same day. There you have four seasons packed in the 24 hours and you must change your clothes or suffer.

Many people have made money out of land and oranges, but a man who buys an orange orchard who knows nothing about it had better hide when the fool killer comes around. The amount of navel oranges grown is something enormous. They flood the market and often there is loss. My sons bought forty acres in an inland valley, where the mercury is 120 in summer and that hurries up the oranges for the holiday trade and nets them a fine sum. Then they planted a grove of Valencias in a good location. These oranges mature in August when oranges are scarce. But it takes no end of care to raise oranges. It won't do to neglect them. They can't take care of themselves. They must be duly fertilized and watered. I noticed thousands of smudge pots through the orchards. When the mercury drops you can have the privilege of sitting up

ASTER VIMINEUS STAR SHOWER.



ASTER VIMINEUS STAR SHOWER.

There are over two hundred recognized species of hardy asters and three hundred and fifty or more have been described as such. The majority of them are natives of North America. Numerous varieties of garden origin are also listed. Under the name of Michaelmas Daisies, these asters are extremely popular for garden planting abroad, but in this country they do not

receive the full appreciation which they merit, doubtless because of their great abundance in a wild state. Some of the hybrids and varieties are handsome improvements in color, form and abundance of bloom. Our illustration shows one of the best, which is well-named Star Shower. It is from a photograph taken at Mt. Desert Nurseries, Bar Harbor, Me.

nights to watch Jack Frost and then perhaps the old rascal can sneak in and defeat you. Eternal vigilance is the price of oranges. Then the markets are uncertain and sometimes your crop don't pay expenses. Many raise fruit with no assurance of market. One man in Escondido had a beautiful lot of peaches and let whole wagon loads go to waste for lack of a market.

California is a land of extremes—tremendous floods and prolonged drouths; sometimes there are tremendous rains, and always they are unprecedented—never heard of before. But 25 years ago a friend went there. I asked him how he liked the country. He said it was a land of floods, so wet you might throw out a blanket anywhere and it would mire down. Railroads washed away and land slides—wherever they could slide. Well we had a taste of the flood. How it rained in some valleys! The dams went out and Jamestown was repeated. Houses, barns, cattle, horses, pigs and fences were swept out into the ocean. An eye witness told me he saw thousands of rattle snakes washed down from the mountains, floating in San Diego bay—probably his imagination was a little too vivid.

It is possible that the San Diego Exposition will be perpetual. The grounds are splendid and the best taste and art were displayed in laying them out. The buildings are fine. The exhibits of the early days and of Southern and Central America are unique. One building which gives a representation of Indian arts is very interesting. The hotels are fine and they know how to treat strangers. We stopped at the Knickerbocker, which is in the center of the street car

system. The proprietor said, "My sons can attend at the desk and I attend to the guests." We wanted to go to the exposition. He took us out to the track. "We will wait for car No. 6." He saw us safely aboard. One day we wanted to go out three miles away. Said he, "I will show you; take car No. 2," and he saw us safely aboard. So when you go to the exposition, summer or winter, you will find The Knickerbocker autobuss waiting for you. Get into it and you can feel at home—assured you will be taken care of. Many of the attractions of the San Francisco Fair have been taken down to San Diego and those who could not go last year can do so this year. San Diego is on the ocean and you have an ideal climate in summer or winter.

C. S. HARRISON, York, Nebr.

FORSYTHIA INTERMEDIA SPEC-TABILIS.

Our cover picture this week very inadequately illustrates the most beautiful of all the Forsythias, as it bloomed this spring in the Forsythia collection in the Arnold Arboretum. Color value and effect in a photograph of a bright yellow subject cannot be adequately brought out in the absence of a strong dark background. The superiority of this hybrid (*F. intermedia* is a hybrid between *F. suspensa* and *F. viridissima*) above any the Arboretum plantation this spring was so marked in its rich profusion of bloom that the rest looked commonplace in comparison. Nurserymen should prepare a big stock of *Forsythia intermedia spectabilis* for the call that is sure to come as soon as the public know about it.

Why I Should Retain My Membership in American Association of Nurserymen

To Members of American Association of Nurserymen:

First. It is the one organization representative of nurserymen of the United States, the one organization where the interests of all merge.

Second. Under the new constitution it is an organization of comprehensive possibilities, organization money, co-operation, is provided under the Detroit constitution.

Third. While the benefits emanating from the reorganized association will prove beneficial to the nursery interests as a whole, those benefits will be much greater to the membership than to the fellow on the outside. Today, as not heretofore, the troubles of the membership, for instance, along legislative lines, are the Association's troubles, and ample provision has been made for the protection of every member of the Association. Unjust and discriminatory legislation in many states, coupled with the domineering spirit of "ye inspector" oftentimes, has been the nurseryman's "nightmare." Today the Association's flag of protection floats over every member. To feel that the great American Association of Nurserymen is going to demand a square deal for every member, that the troubles of the individual member find a hearty response on the part of the Association, brings a feeling of confidence, protection, and hope, the worth of which is inestimable. To feel one's self a part of a big, intelligent, capable organization inspires hope and confidence.

Fourth. It is worth while to be a member of the American Association of Nurserymen because of the possibilities of service to others as well as to one's self. It is building along co-operative lines. There is more real satisfaction in serving than in being served. One man can accomplish little in working alone. Five hundred men, our present membership, can be a power when their energies are directed to a single purpose. Five hundred men unselfishly striving to better conditions in their chosen avocation will bring results. It means a greater volume of business and better profits than formerly. It means better and happier homes for the nurserymen. It means a more intelligent service. It means success.

Fifth. It is worth while to be a member of the American Association of Nurserymen from a purely social point of view. One of five hundred of the biggest hearted, biggest brained men in the United States. If there were no other benefits, it is worth the cost to come in contact with the membership of the National Association because "I become a part of every man who comes in contact with me." No man can be satisfied with less than his best who mingles once each year with members of American Association of Nurserymen in convention.

Sixth. For these and many other reasons which could be enumerated, it is desirable that every worthy nurseryman in America retain his membership. The small additional cost under the new constitution is infinitesimal, the benefits incomparable. Every member of June, 1915, remains a member by subscribing to the provisions of the new constitution. The Association needs every worthy nurseryman in the United States, and every nurseryman needs the Association. There may be some features of the work which you do not understand. Any member of the executive committee, or the secretary, Mr. Hall, will be glad to enlighten you. There are many reasons why the 1916 convention at Milwaukee should be the greatest meeting ever held. It is most probable that it will be necessary to adopt amendments to constitution and by-laws from time to time. Whatever may be necessary to make this organization the most potent factor in the upbuilding of the nursery interests of America, with patience, with loyalty, and with courage, let us approach the task.

J. R. MAYHEW.

Something for Nothing

SUCCESSFUL trade journals are becoming more than ever averse to giving free copies. The average person does not value something that is thrust upon him without charge. He reasons with exactness that "something for nothing" is unscientific and that gift enterprises have some ulterior motive back of them. Thoughtful business men prefer to subscribe and pay for such literature as they desire and are not likely to read papers that are mailed to them without an order. They have learned that free papers are poor papers.

Then again, by accepting free papers they encourage that class of circulation which must necessarily depreciate the value of the paper itself. The more free circulation, the poorer such journals are bound to be. The right and logical thing to do is to refuse positively to accept papers sent free, but to pay for and read the better class of journals. Such a policy is constructive and aids to the production of better papers and higher class service. Free circulation is destructive in every way.—*Shoe and Leather Reporter*.

Except upon special occasions, HORTICULTURE is not sent to members of the trade who are not advertisers or subscribers. This rule is in the interest of subscribers, who should not be compelled to pay for what others are getting for nothing.

STREET VIEW IN THE CONVENTION CITY.



A census of the growth and industrial progress of Houston, Texas, in seven years - 1909-1915 inclusive shows the following facts:

Increase in population.....	46,200
Paved 109½ miles city streets &	1,490,260.00
Permanent bridges and viaducts	1,208,738.00
Permanent improvements city waterworks	794,930.62
106 miles sanitary sewers....	1,059,879.35
34 miles storm sewers.....	1,416,936.81
38 new school buildings erected	1,561,347.00
City hall annex and city auditorium	577,137.28
Invested in park area.....	515,499.00
Increase in city assessment roll	55,537,000.00
15 modern hotels erected.....	5,560,000.00
Wm. M. Rice Institute, permanent improvements.....	2,000,000.00
Wm. M. Rice Institute, permanent improvements, completed eventually (endowment \$10,000,000).....	5,000,000.00
14 churches erected.....	1,400,000.00
Y. M. C. A., hospitals and similar institutions.....	750,000.00
65 apartment houses erected...	2,800,000.00
County court house and federal building erected.....	1,191,000.00
Gross receipts of cotton in 7 years, value.....	155,071,280.00
Production in oil in Harris county in 7 years, value	26,000,000.00
Deposits in national banks, increase	16,812,200.00

The reconstruction of Main Street boulevard, five miles in length, is rapidly nearing completion, and assures the city of Houston a strikingly attractive and well-planned boulevard a tribute of the citizenship of today to

the memories of Wm. M. Rice and Geo. H. Hermann. Mr. Rice bequeathed to posterity the William M. Rice Institute, and Mr. Hermann, likewise, the Geo. H. Hermann Park of 287 acres, and the Geo. H. Hermann Charity Hospital, all located on Main street boulevard.

We give these statistics as a matter of justice to this progressive Texas city, for the information of our readers, especially those who are members of the Society of American Florists, many of whom we feel sure will be rather surprised to learn how rapidly Houston is progressing in everything that appertains to municipal greatness, in hopes that this knowledge, together with additional interesting information which we hope to present from time to time, may perhaps serve as an incentive to some who have not yet made up their minds to take the trip to Texas next August. Considerable has been said as to the duty of the S. A. F. to carry its banner into districts remote from the scenes of its former activities and to shed its benign influence for the uplift of horticulture impartially in every section of our great country. How the S. A. F. may do this and how it might, perhaps, fall short of accomplishing its full purpose in Texas, is considered in an editorial note on page 754 of this issue.

Obituary

Michael J. Tobin.

Milford, Mass. Michael J. Tobin, formerly a gardener employed at a greenhouse, died of cancer of the stomach, on Thursday, May 18, at Hyde Park.

Wm. F. Jones.

William F. Jones, superintendent of the Mishkan Tolia cemetery in Wakefield, Mass., dropped dead in the cemetery on May 26, while talking to Louis E. Carter, superintendent of the Lakeside cemetery, which adjoins. He had been superintendent of the Jewish cemetery for the past 40 years. He leaves two sons and three daughters.

Herbert J. Palmer.

Lance Corporal Herbert J. Palmer was killed in action (casualty list) while fighting with the Canadian contingent at the front. The news just reached us through his cousin, Albert Jay, of Hingham, Mass. Mr. Palmer was for some time employed as assistant under Charles Sander on the estate of Prof. C. S. Sargent in Brookline and was a member of the Gardeners' and Florists' Club of Boston.

Mrs. A. J. Simmons.

News of the sudden death of Mrs. A. J. Simmons, 63rd St., Chicago, came as a shock Saturday morning, when word was received in the market that she had passed away apparently in full health. Mrs. Simmons was the practical head of the flower store, Mr. Simmons having been in poor health for some time, and was greatly respected for her business methods as well as for her pleasing personality. Death found her at her post. With the telephone receiver in her hand, she was taking an order about ten o'clock Saturday, May 27th when a customer chanced to see her apparently fainting. She was caught and tenderly laid down, but in that brief instant life had departed. For twenty years Mrs. Simmons had been engaged in the florist business on the south side, and would have been 42 years old on June 10th, invitations being out for celebrating that event. Besides her husband she leaves one daughter Ruth, 18 years old, two sisters and one brother. The funeral was held on Monday, May 29, from Oak Woods chapel and in spite of a downpour of rain, the building was crowded and many could not get inside to pay their last respects to one who was a friend to all and an honor to the florist trade.

NEW CORPORATIONS.

Syracuse, N. Y.—Russell Bros., four houses, each 40 x 125.

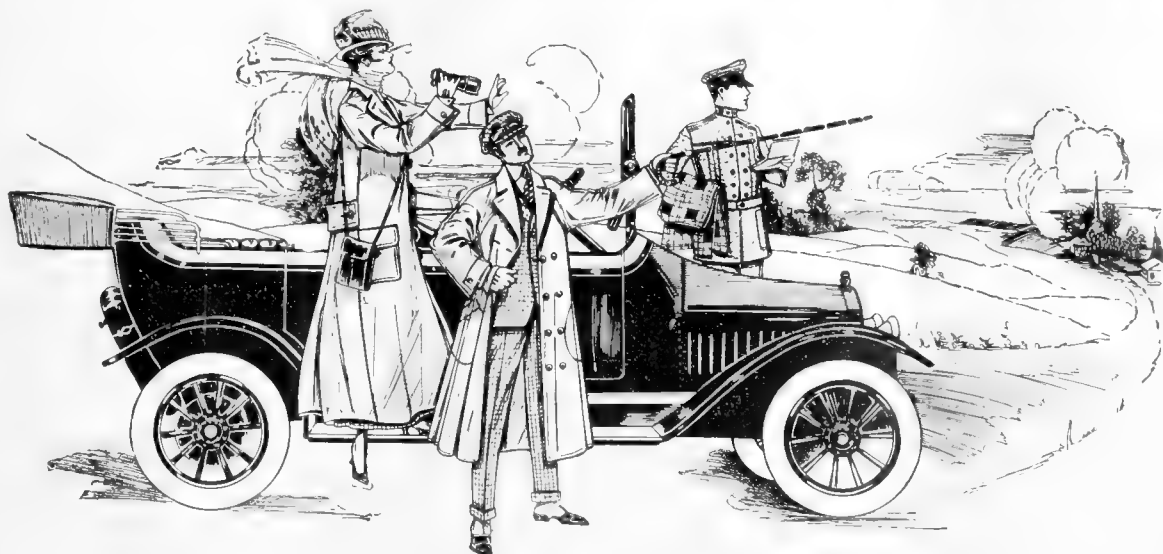
Hartford, Ct.—Hill Floral Co., capital stock \$50,000. Incorporators, A. P. Pitner, J. H. Peck and R. M. Grant.

Streator, Ill.—Thornton Floral Co., capital stock, \$6,000. Incorporators, Fred R., John P. and L. M. Thornton.

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The Women's Coat is made with a full skirt, single breasted, patch pockets, and collar that can be buttoned up close to the neck. It is trimmed with very attractive buttons, and has the belted back.

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HOW MUCH INSURANCE MONEY IS WASTED.

Readers of these articles know that from time to time I break out with something about the great need of knowing the provisions of an insurance policy and following them. As a matter of fact, these outbreaks are practically all aroused by cases which have been brought to me, wherein somebody has failed in his duty, and is confronting a loss in consequence. It seems so exceedingly plain that any business man paying good money for insurance should know enough to be able to realize upon his investment, if the occasion arises, that I cannot get it through my head that there is the slightest excuse when these things happen.

One of the most expensive forms of insurance is indemnity insurance, such as is carried by firms using delivery wagons, more particularly motor delivery wagons. It is astounding how many men carrying this form of insurance fail to comply with the invariable provision that the company must be immediately notified of the accident if there is one. Every indemnity insurance policy contains this provision, usually in the following language:

Upon the occurrence of an accident the assured shall give immediate notice in writing of such accident, with the fullest information then available, to the Company at its local office in ——. If claim is made on account of such accident, the assured shall give like notice thereof with full particulars.

I was sitting in the office of another attorney only yesterday when a client of his—a large wholesale house—telephoned in about a suit that had apparently just been begun against it. The attorney was inquiring about the facts and after listening for a time said this, which tells the story of another case precisely like those I am discussing: "Did you notify your insurance company when you first heard about the accident?" * * * Well, then, your chance is gone. You're too late now. Didn't you know the policy said the company should be notified right away?" * * * "Well, too bad, but you'll have to stand the brunt of it yourself now."

It was really that which inspired me to write this article, coupled with the fact that an appeal court about the same time handed down a decision in a case of exactly the same kind. In that case the court applied the above provision of an indemnity insurance policy, which is in practically general use throughout the entire United States. One of the delivery teams of a business house had run down and killed a 3-year-old child. The parents sued the driver's employer and recovered heavy damages, about \$2,600.

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The employer in turn sued the insurance company in which he had an indemnity policy, to recover the above amount, the company having refused to pay because it was not notified of the accident when the policy said it should be.

I reproduce the following from the court's decision, upholding the insurance company in refusing to pay:

On October 30th, a three-year-old child was accidentally injured by one of the insured teams, which was in charge of its driver. The fact of the accident was known the same day, by the immediate superior of the driver, a Mr. Clark, who represented the insured in the county where the accident occurred. On January 27th, nearly three months after the date of the accident, the insured was notified by a firm of lawyers that a claim for damages resulting from the accident had been placed in their hands. On April 1st, an action to recover was commenced, and the summons was served on Mr. Clark, the insured's representative, on April 7th. It was not until April 20th that the plaintiff gave to the defendant, at its head office, any information concerning the accident which had occurred on October 30th of the year before, or as to the claim made therefor by the attorneys in January. Counsel for appellant contends that this was not immediate notice, such as was plainly required by the contract. We think his contention is well founded. The provisions regarding the giving of notice to insurance companies upon the happening of an accident are valid and of the essence of the contract, being designed to enable the company to investigate the circumstances of the accident while the matter is yet fresh in the minds of all, and to make timely defense against any claim filed. It was the plain duty of plaintiff to report the accident as soon as it had knowledge of its occurrence.

So that the business house in question was obliged to pay out probably \$3,000, counting attorney's fees and costs, merely because it failed to comply with the simple provision of its policy that when an accident happened, the company which is supposed to pay for it should be immediately notified.

There were some features in this case which show how slip-ups often occur in the giving of notice. It ap-

peared that the man named in the above extract from the opinion, Clark had known of the accident shortly after it happened, but had failed to tell his employer. That often happens. There should be a standing order in all establishments carrying insurance of this character that immediate notice of all accidents must be given to some responsible head whose business it is to look after such things. In this case when Clark was asked why he didn't report the accident, he said: "He did not know he was supposed to, and he thought nothing would come of it."

The business house in question also claimed that it did give notice—to the insurance company's local agents. This, too, often happens, although the policy almost always provides that the notice must be given to the company's head office, as did this policy. Therefore the court said "this was not in compliance with the policy, either as to time or place."

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Elton J. Buckley.)

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SEED TRADE

One Week's Imports.

Imports for the week ending June 1, 1916, New York, of seeds and seedlings, from all countries, except Canada, were as follows:

Barley—France, \$3,400; Netherlands, \$1,100; Italy, \$144.
Plants, trees, etc.—France, \$1,002; Netherlands, \$8,885; England, \$5308; Ireland, \$5; Bermuda, \$13; Trinidad, \$136; Brazil, \$2,184; Japan, \$215; Colon, \$2,852.
Red clover seed—France, \$9,603; Italy, \$68,873.
Grass seed—Scotland, \$418.
Other seeds—France, \$14,742; Germany, \$360; Italy, \$4,988; Malta, \$8,059; Netherlands, \$29; England, \$42,560; British East Indies, \$1,437; Morocco, \$2,236.
Nitrate of soda—Chile, \$80,144.

"Titanic" Wheat.

The U. S. Department of Agriculture has recently been advised by a correspondent in California that a variety of wheat is being advertised under the name "Titanic." The assertion is made that it is a new variety of wheat discovered in England about four years ago, and that a small quantity of seed was brought to the United States by one of the survivors of the ill-fated Titanic. The wheat is represented as having extremely high yielding power, the returns reaching as high as 7,000-fold. A photograph sent by this correspondent shows a head identical in appearance with the widely exploited "Alaska" wheat. Five acres of the wheat are said to be growing in the State of Washington, and the seed, it is believed, will be offered at high prices after harvest. The Department has no further or more definite information concerning this variety, but farmers and dealers are cautioned to be on their guard concerning this new exploitation.

The Wind and the Seed.

After all, the wind is the great sower. Bad seeds and good seeds are sown by the wind—here, there, everywhere! Good seeds are dropped where they cannot grow and bad seeds are sown where they are not wanted—even amongst the flowers that are so delicate and beautiful.

But it is the whim of the wind to do wanton sowing. Into the wheat is dropped the cockle, and into the park the thorn. The weed does not ask that its seed be harvested for the spring. It leaves them to the wind. It trusts the wandering wind and is not disappointed.

The wheat and the corn rely on other sowers. The good they do when grown guarantees their protection and planting again and again, but the evil done by weeds never condemns them, except to partial destruction. They prosper on negligence and thrive on sloth. They are the rags of beggars that decorate abandonment. They follow and fare with the wind that, like a roving hag, sows them up and down the land wherever Satan walks.

Better Seed

One of the most important factors in the selection of seed is the character of the seed itself. The seed is the foundation of the plant, and its quality determines the quality of the crop. There is a great deal of seed in the market that is of poor quality, and it is the duty of the planter to select the best. The distinct varietal character of the sort. Planters, particularly those who plant for market, are not satisfied when a planting of Minnesota sweet corn produces a large yield of 8, 10, 12 or 16 rowed ears, but demand that at least 90 per cent. of the plants shall produce only typical ears of the sort. Experienced planters recognize that the varietal character, and often the quantity of the yield, while influenced by local climatic and cultural conditions, is very largely predetermined by the breeding of the seed used, which is rarely clearly revealed by the wisest and most careful inspection of the seed itself.

The planter has to depend as blindly upon his seedsman in the character of the seed furnished as the physician does upon his druggist. The doctor may be mistaken as to the effectiveness of a drug ordered for a certain case, but common sense and the law sustain him in his demand that, if the druggist undertakes to fill the prescription, he shall fill it as it was ordered, and not by substituting something else which he has heard and believes is as good or better. The planter has a similar right to expect to receive the exact variety of seed he ordered, quite independent of the seedsman's opinion of its comparative merit.

A horticultural variety propagated by seed is made up of an infinitude of individuals, each carrying a potentiality of variation, and seed is valuable in proportion to which every undesirable variation, be it ever so trifling, is cut out from the line of probable transmission, so that the stock becomes uniform in varietal character.

The call from garden and farm is not so much for new and improved varieties, as for truer stocks of old sorts of proven merit, and the seedsman who can offer such stock is going to get the trade rather than the one who relies upon newer sorts or lower prices.

Wm. W. Tracy

Washington, D. C.

And I cannot say nor surmise why the wind is such a sower of bad seed, nor why the whirlwind scatters them afar. A slattern with red tongue and lips black with libel could not so slander broad and fertile acres.

And, with infinite mischief and sinister design it rots the noble oak with poison vines and chokes old temples with lush leaves and rank growth.

"Sow the wind, and riot in destruc-

tion," comes the piping, shrill, discordant voice as it drags its drabbed skirts across the land and swishes them into the salt seas.

It sets thistles in pastures, fennels in plowed fields, vetches in rose gardens, traitors amongst friends, and a Judas at the feast.—Anonymous.

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ROCHESTER, N. Y.

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Calling Foreign Deliveries
Must be paid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

For KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for New York. Write or Phone to

MAX SCHLING

22 West 59th Street, Adjoining Plaza Hotel

Best Florists in the States as References.

EUROPEAN ORDERS EXECUTED.
Members of the Florists' Telegraph Delivery.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO**DAVID CLARKE'S SONS**

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, New York
Telephone 1552-1545 Columbus

YOUNG & NUGENT

42 West 28 Street
New York

Members Florists' Telegraph Delivery

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

WORCESTER, MASS.

Randall's Flower Shop

HARRY L. RANDALL, Proprietor.

Member Florists' Telegraph Delivery Association

Of Interest to Retail Florists

NEW FLOWER STORES.

Stevens Point, Wis.—Charles Helm.

Richmond Hill, N. Y.—August Millang

Chautauqua, N. Y.—Lawrence A. Whitford

Birmingham, Ala.—McVay Seed & Floral Co.

Salamanca, N. Y.—M. M. Dye, 74 Main Street

Knoxville, Tenn.—A. H. Dailey, 517 Market Street.

Wilkesbarre, Pa.—Banks & Rogers, 45 Montgomery Street.

Ironwood, Mich.—Thomas Stanaway, 316 McLeod Avenue.

Astoria, N. Y.—F. Koller, 180 Main Street, succeeding Chas. Arnold.

Providence, R. I.—Empire Floral Co., 71 Empire Street, John J. Powers, prop.

BUSINESS TROUBLES.

Norfolk, Va.—Art Floral Co., voluntary petition in bankruptcy, assets, \$1,198.86, liabilities, \$2,468.50.

A voluntary petition in bankruptcy was filed on May 24 by Harry Van Ness, a florist, of 613 Mill Street, Belleville, N. J. in the Newark branch of the United States District Court. He estimated his liabilities to be \$891 and assets at \$352. Exemption is claimed for \$200 of the assets. The case was referred to Referee George W. W. Porter.

NEWS NOTES

West Bend, Wis.—Ziegler & Warnkey have sold their greenhouses and business to Harrison Ashman.

Cleveland, O.—Thomas Liszy has purchased the greenhouse range of Henry Taylor, 4141 East 116th Street.

Cheyenne, Wyo.—The Swayger Greenhouses, Randall Avenue, have been purchased by G. M. Couch and wife.

WHY

Jinn The Florist?
4 Park St., Boston, Mass.

Because Satisfaction
Is Guaranteed

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address. Dardsflor

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



GUIDE BROS. CO.
1201 J ST. N.W.
WASHINGTON, D.C.

WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE National Capital

At your service to deliver Flowers or Designs on Order by Telegraph or otherwise. Prompt Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

Rochester, N. Y.

I. B. KELLER SONS, FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2786
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY

Members Florists' Telegraph Delivery

A. T. BUNYARD NEW YORK

413 Madison Avenue at 48th Street.

WE GUARANTEE SATISFACTION
MEMBER F. T. O. A.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON

915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1836 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

SALTER BROS.
FLORISTS
38 Main Street, West
ROCHESTER, - N. Y.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1532.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.
Members of Florists' Telegraph Delivery.

KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE

125,000 Sq. Ft. of Glass
WORCESTER, MASS.

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl
St.
Albany, N. Y.—The Rosery, 23 Steuben
St.
Albany, N. Y.—William C. Gloeckner, 97
State St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont
St.
Boston—Zinn the Florist, 4 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main
St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid
Ave.
Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th
St.
Cleveland, O.—The Smith & Feters Co.,
735 Euclid Ave.
Denver, Col.—Park Floral Co., 1643
Broadway.
Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.
Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.
New London, Conn.—Reuter's.
New York—David Clarke's Sons, 2139-
2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St.
and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—G. E. M. Stumpp, 761 Fifth
Ave.
New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.
New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.
Rochester, N. Y.—Salter Bros., 38 Main
St., West.
San Francisco—Pellicano, Rossi & Co., 123
Kearny St.
St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.
Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.
Washington, D. C.—Gude Bros., 1214 F
St.
Washington, D. C.—F. H. Kramer, 915
F St., N. W.
Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.
Westerly, R. I.—Reuter's.
Worcester, Mass.—H. F. A. Lange.
Worcester, Mass.—Randall's Flower Shop,
3 Pleasant St.

Penn The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 Tremont St., BOSTON

REUTER'S Members Florists' Telegraph Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence
ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of
TORONTO

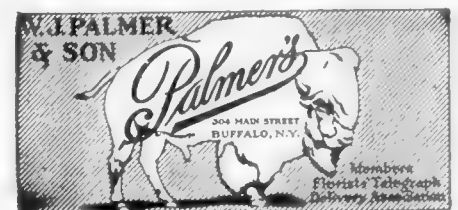
Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES
Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.



NEWS ITEMS FROM EVERYWHERE

BOSTON.

... ..
... .. of the
Boston Rose Co.

Boston florists will be sorry to learn that Martin Lally, who was reported to be a victim of typhoid fever, has contracted a severe case of typhoid fever and will probably not resume his duties for some time.

One of the features of the preparedness parade on Saturday, 27th, was the gigantic float decorated by William Penn. Carnations of all colors were used and the result was striking, especially as it was the only floral float in the entire parade.

A deer, which probably wandered from the Middlesex Fells, jumped through the greenhouse roof owned by Kamerana, a Japanese florist at North Cambridge, at 6.40 A. M. last Wednesday, and did considerable damage to the plants. The animal managed to elude pursuers and escaped.

The lilac display at the Arnold Arboretum has been the mecca for throngs of admiring visitors during the past week. Not alone at the Arboretum, but all over this section the lilacs have bloomed this season with an exuberance rarely attained. Their perfection and abundance while many other plants have done so poorly is one of the remarkable features of this unusual season.

A. R. Hutson, foreman at W. H. Ellett's greenhouses in Brighton has just received information of the killing of his aunt and her two children together with seven other members of the household by bombs dropped from a German Zeppelin upon their home, which was located in the coast district of England about ten miles inland from Brighton. Although the fatality occurred nearly six months ago the news never reached Mr. Hutson until now.

PHILADELPHIA.

Jos. A. Heacock, of the Joseph Heacock Co., the well known growers of palms and orchids at Wyncote, Pa., has been nominated on the Democratic ticket to represent the 8th District in Congress. The election was very close, Mr. Heacock winning over his opponent by 46 majority. We trust Mr. Heacock will make as successful a congressman as he is a florist, in which case all precedents of congressional records will be upset.

FLOWERS BY TELEGRAPH

SAN FRANCISCO
CALIFORNIA
Pelicano, Rossl & Co.
126 KEARNY ST.

CHICAGO.

... ..
... .. whose obituary appears on another page, Chicago has lost one of its most capable florists. Busy as she was she always had time for the little courtesies of life and many a flower was handed over the counter to help make life brighter for some one. On Mother's Day, one of her friends relates that Mrs. Simmons remembered with a small bouquet every aged mother in her vicinity. It was typical of the woman that she died at the telephone with her last order on her lips.

Chicago "Kidlets" will have one great nature lover, Jens Jensen, to thank if they have two more holidays, the object of which will be to study and learn to love the great outdoors as seen outside of Chicago. Mr. Jensen has made this plea to the school board and has backed up his idea by statements of his recollections of such days in his own childhood and the effect they have had on his life. Mr. Jensen is a well-known landscape architect much sought as a public speaker as well as in his regular profession.

The strike of the express drivers and some other employees of the express companies continues to interfere with the prompt shipment of flowers from this market, but the trouble has been very light compared to what had been feared. All packages are obliged to be delivered to the depot by the senders and this is all arranged for under the management of Fred Lautenschlager, and the majority of the stock has been promptly placed aboard the cars. Other shipments have been delivered to outside points and caught the express trains there. It is expected that the strike will be over before another week.

IN THE SPRING.

Have you seen an apple orchard
In the spring, in the spring?
An English apple-orchard in the spring?
When the spreading trees are hoary,
With their wealth of promised glory,
And the mat's pipes his story in the spring?

Have you walked beneath the blossoms
In the spring, in the spring?
Beneath the apple blossoms in the spring?
When the pink cascades were falling,
And the silver brooklets bawling
And the cuckoo bird is calling
In the spring?

Have you seen a merry bridal
In the spring, in the spring?
In an English apple-country in the spring?
When the brides and maidens wear
Apple blossoms in their hair,
Apple-blossoms everywhere
In the spring?

If you have not, then you know not,
In the spring, in the spring,
Half the color, beauty, wonder of the spring.
No sight can I remember
Half so precious, half so tender
As the apple-blossoms render
In the spring.

—William W. Martin.

NEW YORK.

Henry Schurmann of Secaucus has been divorced and ordered to pay alimony to Mrs. Schurmann, but he has the honor of being heralded as "a wealthy florist" in the paper, which is quite an offset. "Wealthy florist" comes as naturally to the newspaperman as "beautiful bride," "talented musician" or "learned judge."

The S. S. New Amsterdam, of the Holland-America Line, for Rotterdam, which sailed from New York on Monday, P. M., May 29, carried a big list of Dutch salesmen who have been canvassing this country for several weeks on plant and bulb import orders for next season. Almost simultaneous with the departure of these salesmen, special reduced price lists have begun to arrive.

J. B. G. Rinehart, a well-known lawyer and politician of this city has been arrested on a charge of theft preferred by Frederick Bauer, a man of 81, who for sixty years has conducted a florist business at 207 Metropolitan Avenue, Brooklyn, opposite Evergreen Cemetery. Bauer's complaint accuses the lawyer of swindling him by pretending to invest money for him, the amount in question being \$18,000.

CATALOGUES RECEIVED.

D. Hill Nursery Co., Dundee, Ill.—Special Advance Prices on Azaleas, Araucarias, Lily Bulbs, etc.

McHuchison & Co., New York City.—Special Price List of Schaum & Van Tol, Boskoop, Holland, Roses, Azaleas, Buxus, Rhododendrons, Peonies, etc., etc. Prices are very low now. Good time to stock up.

L. Daehnfeldt, Ltd., Odense, Denmark; Axel Kundsén, American Representative, Minneapolis, Minn.—Wholesale Prices of Seeds for Summer Sewing, Cauliflower and other vegetable seeds, also full list of flower seeds. For the trade only.

Benj. Hammond, Beacon, N. Y.—Hammond's Slug Shot Pamphlet, 33rd Edition. This booklet gives useful information regarding the insect and fungous diseases of plants and the remedies recommended herein are the result of over a third of a century's experience and experimentation.

Catalogues of Holland material are quoting very low prices to the trade now on account of the recent action of Great Britain in prohibiting the admission to that country of foreign shipments of trees, plants and bulbs.

HIGH GRADE PLANTS
For Retail Stores a Specialty
ASK FOR LIST
THOMAS ROLAND, Nabant, Mass.

PROFITS PROFITS PROFITS

"HERE COMES THE BRIDE"

There's Money in June Weddings and June Graduations and Commencement Days for the Florist **WHO KNOWS HOW TO PLEASE.**

We can supply you with strictly up-to-date accessories, which you **must** have if you want to give satisfaction. Stock up now and have the goods to show customers. Send for prices and you will be astonished to see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

1129 Arch Street, PHILADELPHIA, PA.

THE RIGHT TO CHARGE AN ADVANCED PRICE WITHOUT PREVIOUS NOTICE TO THE CUSTOMER.

In these days of rapid and unexpected advances in all commodities, the following case should strike a responsive chord:

Columbus, Ohio.
For several years I have been dealing with a firm of Cleveland, Ohio, jobbers, buying the general line, among which is a line of staples, on which the price has not varied in a long time. For as long as I can remember the price has been the same, \$1.75 per dozen, f. o. b. Cleveland. The last order which I placed was placed as usual with the salesman who calls on us regularly. He said nothing about any advance in price, but advised me to increase my order, as the market might advance. He said, however, that he did not expect it to advance in the near future.

The goods were duly received and also the bill. I did not have time to check the bill up for a few days, and found then that the price on the line of staples I refer to had been advanced nearly 25 per cent. without notice to me. I took the matter up with the firm, but they refused to adjust the matter, saying that all wholesalers had advanced the price. It was too late to send the goods back because I had used some of them. I wish to know if I am liable for the advanced price, as I was charged same without notice.

E. R. K. & CO.

As I said before, this is vitally important just at this time, because all kinds of commodities are advancing, and the chance is that many more readers of this department may encounter this problem.

Whether a buyer who places an order relying upon a price previously quoted him, is responsible for a higher price, no notice of the advance having been given, depends on several factors.

First, what is the seller's method of doing business? Many manufacturers and jobbers print on all their business stationery and their order forms a line reading: "All prices subject to change without notice." Any seller who has put this wording on his stationery, if it is conspicuous, can raise his prices without notice to a buyer, and if the buyer places an order without inquiring, and afterwards finds the price higher, he must pay it if he keeps the goods. He can of course return the goods but must do so promptly.

Even if the seller does not use the notice referred to, it may be a custom of the particular trade to advance prices without notice. If this is so, the buyer is bound by it and could not object to an advance without notice.

If the seller has not adopted the blanket notice, "all prices subject to change without notice," and there is no custom of the trade about it, then in my judgment, he could not advance the price without notice. Perhaps I should qualify that. If the buyer had been buying a certain thing regularly every week or every month, and the price had for a considerable period been stationary, then it would be the duty of the seller, before filling the current order, to get confirmation of it at the advanced price. If he shipped the order and it was taken in and used by the buyer before the bill was sent, the buyer, in my judgment, could refuse to pay more than he had paid before.

This same question was asked me some time ago by a retail merchant who had bought some goods and had found the price higher than he had

paid the last time. Inquiry demonstrated that the order on which the price had been advanced was the first for over two months. The price two months before had been so much, and the buyer expected it to be the same as his last order, and did not inquire. It proved to be 33½ per cent. higher when the bill came in. The buyer had to have the goods quickly and he therefore used them, but objected to the charge. I advised him that his objection was not well founded. Where goods are bought infrequently, there is no connection between the transactions, and it is decidedly incumbent on the buyer to ask the price when he buys. He has no right to assume that it has not meanwhile changed. In such a case the buyer would have to pay whatever the price was.

There is still another factor which ought to be discussed, and it is present in the case cited by the Ohio correspondent, viz., the effect on the situation of a salesman's acceptance of the order without notice—perhaps without knowledge—of any advance. If the salesman has authority to actually accept orders on the spot—his previous conduct would decide this—then the former price governs if he accepts an order without changing the price, even though he didn't know of the advance, as seems to have been the case with the Ohio salesman.

But if the salesman had no authority to accept the order, but simply was to get it and forward it to his firm, they to pass on it, then what the salesman did or said has no bearing on the case.

(Copyright, May, 1916, by Elton J. Buckley.)

A Florist's Necessity

HART'S HANDY HANDLE

Fits securely on any standard pot and by the use of a little chis-fon or ribbon gives you a Basket effect at a very small additional expense, increasing the price of your plants 100 per cent.

1	12 inches high,	\$2.50 per doz.	4	24 inches high,	\$5.00 per doz.
2	15 " "	3.50 " "	5	30 " "	6.50 " "
3	18 " "	4.00 " "	6	36 " "	9.00 " "

At Your Dealer's or Direct.

GEO. B. HART, Manufacturer, 24 to 30 Stone Street, Rochester, N. Y.

PEONIES

IN ANY QUANTITY

Extra fine dark pink and large white

Good Stock, \$4 per 100

The Best, \$6 per 100

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

TRY

Horticulture's Advertisers

FIRST

Before Looking Elsewhere

Tell Them You Did So And
They'll Reciprocate

EDWARD REID WHOLESALE FLORIST

1619 - 21 Rarstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER Florists' Supplies

122 West 25th St., New York

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RIEHOOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

Telephone 1880 Madison Square

WOODROW & MARKETOS

WHOLESALE

Plantsmen and Florists

37 and 39 West 28th St., NEW YORK



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

226 DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON June 1		ST. LOUIS May 22		PHILA. May 29	
Roses						
Am. Beauty, Special	15.00	to 25.00	15.00	to 25.00	20.00	to 25.00
" " Fancy and Extra	10.00	to 15.00	8.00	to 10.00	10.00	to 15.00
" " No. 1	1.00	to 6.00	1.00	to 5.00	3.00	to 8.00
Russell, Hadley	4.00	to 12.00	5.00	to 12.00	6.00	to 20.00
Killarney, Richmond, Hillingdon, Ward, Extra	5.00	to 6.00	4.00	to 6.00	3.00	to 8.00
" " Ordinary	1.00	to 4.00	2.00	to 3.00	1.00	to 5.00
Arenburg, Radiance, Taft, Key, Extra	6.00	to 8.00	.....	to	6.00	to 8.00
" " Ordinary	3.00	to 5.00	.....	to	2.00	to 5.00
Ophelia, Mock, Sunburst, Extra	6.00	to 10.00	6.00	to 8.00	5.00	to 10.00
" " Ordinary	3.00	to 6.00	3.00	to 4.00	2.00	to 4.00
Carnations, Fancy	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
" " Ordinary	2.00	to 3.00	.75	to 1.00	1.50	to 2.00
Cattleyas	40.00	to 50.00	30.00	to 40.00	25.00	to 60.00
Dendrobium formosum	.....	to 35.00	.....	to .....	.....	to
Lilies	6.00	to 8.00	4.00	to 5.00	6.00	to 8.00
Lily of the Valley	2.00	to 5.00	3.00	to 4.00	2.00	to 5.00
Daisies	1.00	to 2.00	.25	to .35	.40	to .50
Mignonette	1.00	to 2.00	3.00	to 4.00	.....	to
Snape-dragon	3.00	to 6.00	3.00	to 4.00	.85	to 1.00
Peonies	3.00	to 6.00	4.00	to 6.00	3.00	to 6.00
Gladioli	4.00	to 6.00	4.00	to 6.00	3.00	to 8.00
Calendulas	1.00	to 2.00	2.00	to 3.00	1.50	to 3.00
Stocks	2.00	to 3.00	2.00	to 4.00	1.00	to 3.00
Sweet Peas	.50	to 1.00	1.00	to 3.00	.50	to 1.00
Gardenias	12.00	to 15.00	10.00	to 20.00	.....	to
Adiantum	.....	to 1.00	1.00	to 1.85	.....	to 1.00
Smilax	12.00	to 15.00	19.00	to 20.00	20.00	to 25.00
Asparagus Plumosus, & Spreng. (too Bchs.)	25.00	to 35.00	25.00	to 50.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELLICOTT ST. - - - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER OF

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

(Continued) • 2157-551

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 141 West 28th St., NEW YORK

Telephones: 2200, 2201, Madison Square.

MOORE, HENTZ & NASH

Wholesale Commission Florists

55 and 57 West 26th Street

Telephone No. 784
Madison Square

New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

108 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE { 608 } MADISON SQ., NEW YORK

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	Last Half of Week ending May 27 1916		First Half of Week beginning May 29 1916	
American Beauty, Special	12.00	to 20.00	15.00	to 25.00
" " Fancy and Extra	8.00	to 12.00	6.00	to 12.00
" " No. 1	3.00	to 6.00	3.00	to 6.00
Russell, Hadley	3.00	to 12.00	2.00	to 12.00
Killarney, Richmond, Hillingdon, Ward, Extra	3.00	to 10.00	3.00	to 6.00
" " Ordinary	3.00	to 6.00	2.00	to 3.00
Aronburg, Radiance, Taft, Key, Extra	3.00	to 10.00	3.00	to 6.00
" " Ordinary	3.00	to 6.00	2.00	to 3.00
Ophelia, Mock, Sunburst, Extra	3.00	to 10.00	3.00	to 6.00
" " Ordinary	3.00	to 6.00	2.00	to 3.00
Carnations, Fancy	4.00	to 5.00	3.00	to 3.00
" " Ordinary	3.00	to 3.00	2.00	to 2.00

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Consignments Solicited

Flower Market Reports

(Continued from page 769)

as quiet as an ordinary Sunday. All commission houses were well stocked with almost everything, nothing moving. Even cattleyas were in great supply and gardenias, which had been selling for very fair figures, also took a big drop. At present enormous quantities of peonies are flooding the market just two days too late, and where they would have sold at from 8 to 12 dollars a hundred, they are now being sacrificed at any price from \$15 to \$60 per thousand, according to the variety. Lily of the valley is moving slowly, and it is almost impossible to dispose of smilax, adiantum and such stock. All things considered, this market is in a very unsatisfactory condition.

One feature
PHILADELPHIA stood out prominently in the Memorial holiday flower trade of Philadelphia.

Up to the last shipping day the commission men had a headache from an avalanche of peony orders which they could not fill, because the peonies were not in bloom. The very next day, the peonies came in with a rush, and they had a headache with peonies for which they had no orders. Sad. Sad. But, outside of that, business was up to the usual mark—and perhaps a little better. If it had not been for the peony situation the aggregate would have been away ahead of all records. There was no marked advance in prices on the staple lines except on carnations. These went up about twenty-five per cent. during the four days preceding the holiday as the cool weather and the "cease-firing" custom had shortened the supply. Another good seller was the gladiolus—both the grandiflora and the baby went very well indeed. German irises were plentiful and good and cleaned up pretty well. The rose market was a little slow, and the same may be said of other high-priced stock such as orchids and gardenias. Their turn will come next week—when the June Girl gets busy.

Contrary to the expectations of last week, there was a

plentiful—in fact, an over-plentiful supply of cut flowers for Memorial Day. The extremely hot weather forced quantities of practically all kinds, so that there was no shortage as predicted. Too, the demand was not quite as good as usual, probably owing to two reasons: Falling so early in the week, many observed the day on Sunday; and again there is a growing tendency to use blooming plants and magnolia wreaths owing to their more lasting quality. For both of these the demand has never before been as great. Returning to cut blooms; the demand for special goods was not as good as usual, the cheaper varieties selling decidedly better. Dec-

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MISCELLANEOUS	Last Half of Week ending May 27 1916		First Half of Week beginning May 29 1916	
Cattleyas	25.00	to 35.00	25.00	to 35.00
Dendrobium formosum	20.00	to 25.00	20.00	to 25.00
Lilies	6.00	to 10.00	3.00	to 5.00
Lily of the Valley	1.00	to 5.00	1.00	to 3.00
Daisies	.50	to 1.00	.50	to 1.00
Mignonette	2.00	to 3.00	2.00	to 3.00
Snapdragon	2.00	to 8.00	2.00	to 6.00
Peonies	8.00	to 12.00	1.50	to 6.00
Gladioli	4.00	to 7.00	2.00	to 6.00
Calendulas	1.00	to 2.00	1.00	to 2.00
Stocks	2.00	to 3.00	1.00	to 2.00
Sweet Peas	.25	to .75	.15	to .75
Gardenias	4.00	to 15.00	8.00	to 12.00
Adiantum	.50	to 1.00	.50	to 1.00
Smilax	12.00	to 15.00	10.00	to 12.00
Asparagus Plumosus, & Spreu (100 bunches)	15.00	to 25.00	15.00	to 25.00

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I have an unlimited market for your flowers, any variety, in any quantity. Prompt returns of sales on consigned goods. Ready cash when due. A clean record of twenty-eight years in the Cut Flower Commission Business.

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oration Day itself was a keen disappointment to those shops which cater to late trade, the steady downpour of rain precluding really any business. Bedding work, as well as landscape, continues surpassingly good.

The conditions of the
ST. LOUIS wholesale market have not been satisfactory

to the commission man nor the grower of late. Stock has been glutted up and prices away down. The overcrowded market of the previous week was intensified by the coming in of large shipments of peonies and cape jessamines. The arrival of these always causes a less demand for roses and prices have to suffer. The coming

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NO DESIGNS MADE UP

and carnations, also other staple stock of Memorial Day this week clears up some of the overcrowded conditions, but there are many other outdoor flowers coming in now. Lily of the valley should be well in demand this month for weddings and the National Convention and school closings should keep the retailer somewhat busy for a while.

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We handle every variety of cut flowers. We have 22 years' experience behind us, and we do not expect a gold medal for doing our full duty by our consignors and customers. You cannot go very far wrong when dealing with us.

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Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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W. H. P. Co., Mass.
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Asparagus Plumosus Seedlings, \$5.00 per 1000. Ready May 1st. COLLINGDALE GREENHOUSES, Collingdale, Pa.

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RAY TREES. Write for prices and price list.
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Hans Hansen, Malden, Mass.
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BEGONIAS

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BEGONIAS

Lorraine, 2 1/2 in. pots, \$12.00 per 100; Cincinnati, 2 1/2 in. pots, \$15.00 per 100; Mrs. J. A. Peterson (New), 2 1/2 in. pots, \$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHRS CO., Rutherford, N. J.

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Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

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French Bulbs.

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Bulbs of all descriptions. Write for prices.
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Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 postpaid. I. L. PILLSBURY, Galesburg, Ill.

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Canna Roots.
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R. W. J. Traver, New York City.
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Newest list of the newest Cannas just out. Complete assortment of the finest sorts, at remarkable rates.

Send for list today.

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New Chrysanthemum Catalogue for 1916.
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Guttman & Raynor, Inc., New York City.
Early Lavender Pink Chrysanthemum.
Alex Guttman, also Emma, a Garza.
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CYCLAMEN. Best strain. Separate colors or mixed, 3 in. pots, \$8.00 per 100, for May delivery.
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John Wannamaker, Newest, Handsomest, Best. New color, new form, and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

IF YOU INTEND growing Dahlias for cut flowers then you will make no mistake if you will try my assortment, especially selected for cut flower production. Three whites, 3 pinks, 1 red, 1 yellow, 1 lavender, 1 fancy; all field roots, labeled true to name; per 100, 10 of each kind, \$3.00; per 1000, 100 of each kind, \$25.00. 50 at 100 and 500 at 1000 rates. Cash with order. Guarantee entire satisfaction. If interested in Dahlias, then please send for my wholesale trade list of Dahlias.

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Dracaena Indivisa, nice plants, 4 in., \$10 and \$15 per 100; 5 in., \$20 and \$25 per 100. Cash. CHAS. H. GREEN, Spencer, Mass.

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To the Heart of Leisuredland.
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Geraniums out of 3½ inch pots, \$7.00 per 100. Cash please. LEONARD COUSINS, JR., Concord Junction, Mass.

S. A. Nutt, R. C., \$10.00 per 1000; 3 in., \$5.00 per 100; 4 in., \$8.00 per 100. FRANK LEITH & SON, Haverhill, Mass.

Geraniums, 3½ inch, in bud and bloom, \$7.00 per 100. S. A. Nutt, Poitersville, Vinca Variegated, 4 inch, heavy, \$12.00 per 100. Cash. CHAS. H. GREEN, Spencer, Mass.

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Florists' Hail Asso. of America.
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Japanese Lily Bulbs of Superior Quality.
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August Rolker & Sons, New York City.
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C. C. Trepel, Brooklyn and New York.
Nursery Stock and Bedding Plants Bought.
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NUT GROWING

The Nut-Grower, Waycross, Ga.
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Island Seed,
1110 Broadway, New York City.
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ORCHID FLOWERS

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PAIAMS

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Seeds for the Florist.

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Metropolitan Material Co., Brooklyn, N. Y.
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Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
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The Davey Tree Expert Co., Kent, Ohio.

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For page see List of Advertisers.**NEW BOOK****JUST ISSUED****Plant Propagation Greenhouse
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So many discoveries of new facts by plant investigators, shortcuts and "wrinkles" worked out by plant propagators, and nursery, greenhouse and garden methods simplified or made more effective, have made books hitherto available on plant propagation out of date.

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The table of contents includes: An introduction on general principles, germination, seed testing, potting, layerage, bottom heat, cuttage, clones of cuttings, graftage, and theories and laws, Daniel's experiments in graftage, tree stocks and scion handling, grafting waves and wound dressing, methods of grafting considered individually, budding methods, nursery management, and laws affecting nursery stock.

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SITUATION WANTED by married man, age 33, either at a nursery or private estate; best of references; please state wages. Address "L.," care HORTICULTURE.

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It is dead absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

P.-L. CHEMICAL CO., 507-509 W. 19th St., New York

CORRESPONDENCE SOLICITED.

REPORT OF THE FLORICULTURAL PATHOLOGIST, UNIV. OF ILL.

Before the Ill. State Florists' Assn. at Mt. Pleasant, Mo., by Geo. L. Peckert.

Branch Rot of the Carnation.

Branch rot of carnations was much more serious this past season than formerly. This condition was due in part to peculiar weather conditions. The excessive rains produced plants that were large, bushy and soft. As they made such rapid growth, a large amount of topping was necessary which increased the number of wounds and so increased branch rot. Also, the plants being bushy prevented them from drying out completely after the rains, and this factor also induced this trouble.

The fungus causing branch rot cannot attack a healthy plant below the surface of the soil like stem rot, but it is more in the nature of a wound parasite, attacking branches where the flower stems and shoots have been broken off and slowly working its way down into the stems and finally killing the entire plant. The fungus is also able to get in at the nodes and kill the young shoots even before they are visible. In bad cases of node infection, the nodes become discolored and split and in a short time the whole branch dies. It was observed, for the first time, this season that the fungus is the principal cause of the dying off of the lower leaves of the plant, especially in cases where the plants have yellows.

Methods for Control.

To control this trouble, I would make the following recommendations:

1. It is better, for several reasons, to use a medium sized, sturdy plant than a large, bushy one to set in the bench.

2. In planting, do not set the plants too close together. Overcrowding will increase branch rot considerably.

3. As in the case of the control of stem rot, keep the temperature down, especially during the first three months.

4. It is always better to syringe early in the morning of a clear day, so that the plants will dry out by evening.

5. In topping, be careful not to leave stubs and broken parts on the

plants, for these are open doors for branch rot to enter.

6. In gathering flowers, experiments have shown that carefully breaking off the flower stems at the node is to be preferred to cutting the stems between the nodes. Branch rot will enter a stub easier than it will at the nodes.

7. Of the utmost importance in the control of branch rot, as well as other diseases, adopt for your slogan, "keep the houses clean," which means under, as well as on top of the bench.

Carnation Yellows.

Carnation yellows appears to be increasing in seriousness rapidly and is now to be found on all the standard varieties on the market. While the cause of this disease still remains unknown, I would make a few suggestions, which if carefully followed out will help eliminate this trouble from your greenhouses.

1. Always bear in mind that anything that will lower the vitality of your plants will increase the amount of yellows. Also, that any check the plants receive will, likewise, tend to increase yellows.

2. Before making cuttings, select and mark the strongest and healthiest plants in the benches. Watch them closely and if they develop yellows do not take cuttings from them.

3. Make your cuttings from plants in bloom in preference to stock plants. In this connection, when you grow a new variety remember the plants are generally propagated from stock plants and in many cases weak cuttings, due to overpropagation, are used. Therefore, it is well worth your while to select the best and strongest plants of the new varieties the first year and watch them closely and then make cuttings in the manner I have outlined above.

4. Root your cuttings early in the season and do not leave them in the sand after they have rooted. It is better to put up cuttings with the root system fairly developed than to wait until the cuttings have a great mass of roots. From my observations, I have found that the later cuttings are made, the longer they take to root. Also, that the late rooted cuttings will be troubled with yellows much more than the plants rooted early in the season.

5. Although the more plants are shifted, the more yellows will increase,

never let the young plants become pot-bound, or stunted.

Antirrhinum Rust.

Antirrhinum rust, like the carnation rust of old, has spread over the whole country and is now found in the east as well as the west. Like carnation rust, it will run its course and the ultimate result will be that the antirrhinum breeder will give us rust-resistant varieties as in the case of the carnation. However, the question now before the grower is to know how to control it at the present time.

This rust as well as anthracnose, another disease of the snapdragon, can be prevented by applying Bordeaux mixtures every two weeks from the seedling stage until the spikes form, followed by a weekly application of ammoniacal copper carbonate during the rest of the growing season. Bordeaux mixture discolors the foliage, so that it cannot be used through the season.

In my former reports I recommended the use of seeds instead of cuttings. However, I have learned from experience, that suitable plants for commercial purposes cannot be obtained from seeds. Therefore, I would modify my recommendation to this extent. Do not use cuttings if you must send for them. Start your first batch from seed and then select cuttings from the most promising plants. Rust cannot be introduced in your establishment through seed, but infected cuttings can be easily overlooked. It has been proven rather conclusively, that the rust was spread over this country in the last three years, on infected cuttings.

Aster Wilt and Yellows.

Last summer, work was started on aster wilt and yellows, two of the most serious troubles of this crop. About ten thousand plants were used in the experiments. Twenty-five varieties, representing all the commercial types, were grown from seed obtained from various states in this country and different localities in Europe. All the plants used were more or less infected with yellows, showing that the variety or origin of the seed has no influence on the amount of yellows. The more young seedlings were shifted, the more loss from wilt occurred. This was true to some extent with yellows also. The lowest percentage of loss occurred where the seeds were sown directly in the field, although the plants bloomed later. Disinfecting the seed with mercuric chloride (1 part to 1,000 parts of water) for 5-10 minutes, and the use of clean seed beds, with a minimum of shifting or transplanting, will materially decrease the loss from wilt. No recommendation can be made for the control of yellows at this time.

PUBLICATIONS RECEIVED.

The girls of America owe a large debt of gratitude to the Page Company of Boston, Mass., for the many interesting and deserving girls' books they send out each year just about the time the vacation period is beginning. This vacation literature is always clean, wholesome and vivacious and marked by a refreshing absence of anything morbid or objectionably sensational. "Social mush" finds no place in The Page Company's publications.

One of the books just out is "Blue Bonnet Keeps House." This is the fifth in the popular Blue Bonnet series by Caroline E. Jacobs and Lela H. Richards. It is the tale of a girl of wealth who owns a ranch in the west and of her social experiences in a sojourn in Boston. A book just suited for a present to a girl in her teens. Price \$1.50 net.

Sylvia of the Hill Top, the Second Cheerful Book, by Margaret R. Piper, author of "Sylvia's Experiment; The Cheerful Book." "The Cheerful Book" is a trademark, well taken considering the phenomenal success of the "Glad" books which carried the name of the Page Company all over the world. Sylvia of the Hill Top starts off with an episode in which a young gardener becomes "part of the landscape" and as the hero of the story "makes good" all through. The heroine of the first Cheerful Book proved herself a messenger of joy and cheerfulness to thousands of readers. This book tells how she continued her sunny mission during her summer vacation and made friends with everyone. The frontispiece is in full color. Price \$1.25 net.

The Girl from the Big Horn Company; by Mary Ellen Chase. Since this book was issued its popularity has so spread that the Page Company have been compelled to put it into its fourth printing. It is one of those big whole-souled healthy stories which, sad to say, we see so little of in these days. This is the story of a typical Wyoming girl and her experiences among new social surroundings in Vermont. It is full of life and spirit. One reviewer of this book says: "Virginia Hunter, with her fresh western ways and her wholesomeness, is so infinitely superior to Gladys Fulhern Goat or some other individual who is made the heroine of the social penny thriller that it seems almost a shame that the publishers have to sell the unique book alongside of the commonplace."

The price is \$1.25 net. Seven full page illustrations, frontispiece in full color.

Bulletin of the American Dahlia Society, Vol. 1, No. 3. The May issue of the Bulletin is a progressive and useful document. Articles on Dahlias from Seed, Preferred Varieties, Dahlias in Public Parks, Affiliation, Judging Points, The Dahlia as a Cut Flower, and many notes on cultural topics by growers of repute form the contents which dahlia growers will find interesting and instructive.

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FREAKISH FACTS AND FACTLESS FREAKS.

Rosebush Yields Apples.

Dr. Irwin's rosebush this year produced apples instead of roses. The crop was gathered by Dr. Irwin last week. It consisted of five apples, each about the size of a hen's egg, and of delicious flavor.

In Mr. Ogden's yard in Fulton Avenue is another rosebush which has produced flowers for ten years. But it, too, became tired of the bumdrum existence it had been leading, and also produced apples this year.

—Moberly (Mo.) Monitor.

Raises Strawberries in Cellar in Winter.

St. Louis, April 2.—Mrs. Katherine Schuch of Randle street, Edwardsville, Ill., has found that the basement of her home is good for something beside storing coal and doing the week's washing. She grows a winter crop of strawberries there. While the snow is piled around the house, it is a common practice of Mrs. Schuch and her sons to step downstairs and fill a bowl with ripe, deliciously flavored berries for luncheon. The basement strawberries are not so red as those grown in the sun in strawberry season, but it seems to the family that they equal the spring berries in taste.

—Boston Post.

No Peanuts for Orchids.

"Do not feed the plants" was an order that was repeated to surprised guests at the Flower Show, at the Grand Central Palace, recently, as thousands of men and women made the acquaintance of the collection of mouse and bug eating flowers on exhibition there.

The orchid hybridizing exhibit of Clement Moore, amateur floriculturist, attracted particular attention when it was learned that the mother orchid captured and devoured small insects that might injure the young seedlings when they first appear above the ground. Other carnivorous plants whose tastes run largely to dainty field mice also were included in the collection.

—New York Tribune.

Judges at the International Flower Show at Grand Central Palace who were to pass on the comparative merits of modest violets rubbed their eyes, blinked, looked again and then demanded to know what variety of bloom was a new one that reposed in the midst of a mass of mauve tinted flowers.

Somebody had tried to play a little joke on the horticultural wise men by including among the entrants a variegated cubist cabbage labelled "Violet Ascending to the Sun." Every tint in the rainbow was reflected in the common or garden variety of vegetable which had carefully been colored and stuck all over with flower petals. The judges refused even to consider the floral novelty and it was hastily removed by the management of the show, who took care to suppress the



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Quart, \$1.00; Gallon, \$4.50.

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A 12% nicotine solution properly diluted for fumigating or vaporizing.

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Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

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NICOTINE MFG. CO.

ST. LOUIS

name of the cubist violet exhibitor who apparently hoped to get a little free advertising out of the band made bloom.

—New York Herald.

Est. 1765

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Century and a Half**HEWS****STRONG
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Special Shapes to Order. Chicken Fountains, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
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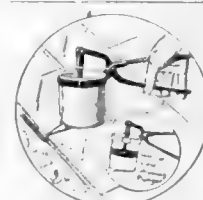
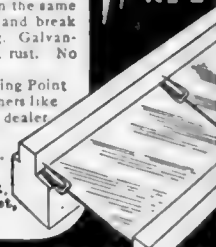
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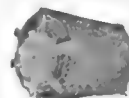
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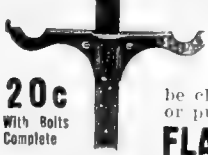
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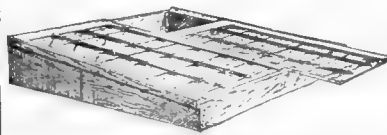
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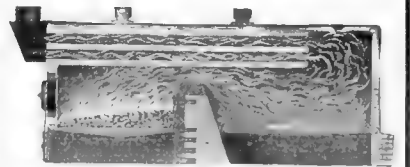
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Vol. XXIII
No. 24
JUNE 10
1916

HORTICULTURE



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"It vain our toll, we ought to blame the culture, not the soil."—Pope.

Miltonias

Miltonias are very subject to thrips so they should be dipped or sponged with fir tree oil or aphine about every two weeks. Give plenty of ventilation both day and night until fall. Keep them well syringed overhead during bright weather. Where you can, use removable blinds or lath shadings; they are the best, but where you have not these do not make the shading too dense. When through flowering the plants should have any necessary repotting. They do well in pans or pots, which should be half-filled with broken crocks and lumpy charcoal. A good compost is osmunda fern fiber mixed with a little live sphagnum. They can be kept rather close for three or four weeks after potting, but after that place them in as cool a house as possible during the summer months.

Preparing Compost for Carnations

All good growers know that without a congenial compost from which to draw the necessary food supply returns from the plants will be very unsatisfactory. Much success or failure is dependent on the soil used. In reality there is no dull season for the carnation grower, for there is always something to be looked after. Sod that was piled up last fall and exposed throughout the winter is the soil to use. Where this was mixed with manure at the rate of three of soil to one of manure it will not require anything else outside of a good turning over so as to have it thoroughly mixed. Always keep the pile clear of weeds and it will be time well invested.

Propagating Begonias

If you want to work up a good lot of flowering and ornamental leaved begonias now is a good time to start. The new side growths including such as come directly from the base of the plant make the most satisfactory cuttings. All flowering begonias will root now with the greatest of ease. An ideal place is a shaded house where the ventilators can be adjusted to avoid sweeping air currents, with an atmosphere that is charged with a reasonable amount of humidity. The floors and benches should be kept cool by frequent wettings, during the hot weather. For shading the house, a thin mixture of naphtha and white lead will do. When rooted they should be potted into 2½ or 3-inch pots in sandy loam, leaf mold and sand. In the shifts after this use a

turf like, crumbly sod three parts well decayed cow manure one part, and enough of leaf mold and sand to lighten it.

Poinsettias

Poinsettias that were started early should now furnish some fine material for propagating. Such as are rooted now will produce bracts a foot or more in diameter and be suitable either for benching or making up later into large pans. Don't break them off the wooded stem but use the knife and let one or two eyes of the soft wood remain on the plants to give more cuttings in about four weeks. A common error is to leave cuttings too long in the sand after being rooted. Pot into stiff loam mixed with about one-third of well rotted cow manure. Pot just as soon as the roots have formed. By keeping them covered with glass and not giving too much ventilation, they will come along in good shape. If convenient and suitable greenhouse bench space is not at disposal, spread a coating of coal ashes in a cold frame and grow them there.

Stocks for Winter Flowering

The best place to care for these plants through the summer is in a frame where the sashes are elevated 6 to 8 inches, which will afford at all times a free circulation of air. In this abode they will do fine until very late in the fall. It is better to pot them when quite small. A 2 or 2½-inch pot is a good size to use and as these become filled with roots shift into 4 or 5-inch pots. Give them a rich compost, say three parts turfy loam to one of well-decayed manure. Ventilation is one of the most important points in growing stock successfully so give them plenty of it. Give regular fumigation to keep down the green fly. It is a good plan to wait until the buds can be distinguished before they are planted out, for you can tell the double flowered ones by their stubby buds.

Planting Out Stevias

Stevias could be planted out in the field. I prefer to give them a piece of poor ground as they will then make nice bushy plants. When given a rich soil they make entirely too rampant a growth. They should have about two feet of space between the plants. Keep pinching until the last of August when they can be lifted and potted or benched.

Next week: Asparagus plumosus; Decorative Plants; Gladioli; Rambler Roses; sowing Perennials.

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HORTICULTURE

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The old saying that "No rule is so general which admits no exception" applies in the case of St. Louis which had the exceptional misfortune to be visited by two destructive hail storms, within a brief period, many of the sufferers in the first being among those worst hit by the second. HORTICULTURE extends sympathy to the victims, who, it is to be hoped, are all protected by the Florists' Hail Association. This organization has proved a veritable life-saver for many a florist in distress and, doubtless, this St. Louis experience will be the means of adding not a few new names to Secretary Esler's retinue.

An important movement

Our news columns give an account of the open air flower show held at Pelham Bay Park, New York, last week. Important movements often originate in small beginnings. Any movement which seeks to promote more rational living and a fuller appreciation of woodlands, gardens and all the environment of rural life is surely important. The one we are now considering may have fallen short of expectations in its first public attempt under hitherto untried conditions, but it was far from being mediocre and it should be judged not merely for what it was but for what it means for now and for the future. The plans of its promoters in their ultimate aim and purpose are distinctly on lines in which HORTICULTURE heartily believes, as a stimulus to substantial horticultural growth and for the best interests and material welfare of the entire horticultural profession. A sincere endeavor to amalgamate the active commercial and the amateur horticultural interests in singleness of purpose for effective joint work seems very manifest in this unique enterprise. Every forward step taken in that direction should have unqualified commendation and every possible encouragement and assistance, for only such a policy can assure success. We hope that the people who stand behind this movement now so auspiciously started will not relax in their zeal and that the new organization may prosper in all it undertakes for the advancement of horticultural art.

Holland importations and prices

We took occasion last week to call attention to the appearance in this country of a number of special low price quotations on nursery stock received by mail from Holland just as the army of forty or more salesmen who had been traveling here were about to board their steamer for home. How far this disposition to cut prices will extend, how it will affect the Boskoop syndicate by whom prices are established in advance or what course will be adopted by the American houses which have already placed their orders, in the event of a stampede to unload accumulations in this country, we cannot predict but we do know that a number of the larger buyers here, in view of the practical cutting off of most of the other markets which have been Holland's best customers, have withheld their customary orders this season, being convinced that the prices asked were not based upon present actual conditions and outlook in Boskoop. The thinking man naturally questions the wisdom of the policy of sending so many men to this country to do the work which might be better done by a small fraction of the number and at a great reduction in the expense which the buyer feels is sure to come out of himself eventually. It is a very grave and even disastrous situation with which the Holland growers and dealers are now confronted, but self-protection demands the exercise of prudent foresight as the only safe course for the American buyer under the circumstances. Unless he can have an agreement that, in the event of reduced quotations later in the season he can have the benefit of the same, then the buyer cannot be blamed if he adopts the conservative course which his judgment dictates. The safest and altogether best plan for all American buyers is to insist on prices being made, freight prepaid, to New York. The foreigner is always able to get a better freight rate than American buyers and it should be up to him, being on the ground, to superintend all such shipments during these perilous times.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur C. Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Planting Time

Planting time has now arrived in earnest even on the smaller places, and with labor hard to get, no time should be lost in getting the houses planted and ready for another year's work. Do not use any poor plants as it is a big loss in the long run. It will be much better for the pocket book of the man backing the business to buy good plants if those grown at home do not come up to the mark. There are times when even with the best of care a lot of plants will become pot-bound and will not have a very good color. These plants are not poor though, for no sooner are they planted than they will begin to grow very fast. With prices always growing smaller and the cost of labor, etc., always climbing, it is necessary to keep the houses producing so that there will be no idle benches at any time. Grow the plants in four-inch pots if at all possible. With good culture and care in syringing and watering, these plants can be grown so as to cut even before they are planted, and after careful planting in the benches, will begin to cut more and more.

Depth of Soil in the Benches

Every grower has his own idea as to the proper depth of soil in the benches but with us we find that the less we can use the better. Three inches, with four as the limit, is plenty with our way of growing. This does not mean three inches of loose soil which when packed would not give the plants any space to root in, but three inches of well firmed soil. It is a great saving in many ways not to use too much soil. In the first place it takes about half the sod that it would were the benches heaped full, which means a great saving there. Then comes the wheeling in and then wheeling out. The less soil in the benches the sooner this work can be done, and the quicker the work is done the smaller the expense. Then when the roses are growing we find it much better to have their roots well confined as they are then much easier to handle. Too much soil is the cause of many a Beauty bench running blind all the time, with stems running along thirty or forty feet. Were the roots confined as they should be this would not be so apt to happen. With less soil in the benches, more can always be added towards spring when the plants need it, in the form of mulch whereas were the benches filled top full, none can be taken away in the winter should it happen to be a very dark one. The plants will also dry out much better in the winter if less soil is used, thus giving the grower an opportunity to give the plants more water, and the oftener the benches can be watered the better they will grow.

Building New Benches

Here and there new benches will have to be put up and a word or two on these will not be out of place. All

joints should be painted if it is not possible to paint all the "two by fours" and boards. Care in driving nails will keep the benches from decay a great deal too. The less nails used the better. It is quite unnecessary to put two nails into a board wherever it crosses a cross piece. With good cross pieces, two nails ought to hold a sixteen-foot board in place, and they do not have to be twenties either, for eight-penny nails are long enough. It will not be necessary to use galvanized nails as the common wire nails will last as long as the boards and that is all that is necessary. One very important item is the drainage, or the space between the boards. When the plants are grown on the small amount of soil plan, the spaces between boards should not be more than half an inch, with one quarter to three eighths as the standard. This will be plenty of drainage unless there is a bench that is shaded badly, when more drainage will have to be given. Nothing is gained by leaving spaces an inch or more as these wide spaces only let a lot of earth through, making a great deal of extra work in cleaning it out from under the benches. It is hardly possible to keep only four inches of soil in the bench with such wide spaces for drainage as the watering will wash much of the soil right through, leaving the roots exposed to the air, which does them very little good and often a great deal of harm. In buying lumber be sure to order such as will fit the benches without much waste. Boards four, eight, twelve and sixteen feet long can be used without much cutting, giving preference to the latter, as the work of building can be done much quicker and it is easier to keep track of the lumber when it arrives. Narrow strips of one-ply roofing put between the cross pieces and the bottom of the bench, will shed the water away from the two-by-fours and thus make them last much longer. These should be wide enough to allow the edges to be bent down a little so that the water will run off.

Syringing

Care should be taken not to have the plants dry when syringing. It will not hurt to water late in the afternoon, especially if the steam pipes are kept hot at night, so that there will be no excuse for not having the plants wet enough for the syringing day. The sun is very strong now and it will not take much to burn the leaves. It will not hurt the plants to be a little wet, as they will dry out fast enough if they are old plants and growing freely and the young plants can be syringed so that hardly any water is thrown on the benches. Use plenty of pressure and use an open hose if possible. It will save the leaves, and save many a length of hose, for most nozzles are hose bursters. With an open hose the work can be done very quickly so that it will not take any more water, neither will it be necessary to soak the whole house if care is taken and the one syringing keeps moving. The old way of standing in one place a long time while syringing is a little out of date. The quicker the work is done the better.

INTERNATIONAL GARDEN CLUB FLOWER SHOW

The first attempt at an outdoor floral exhibition by the International Garden Club at Pelham Bay Park, N. Y., last week was a very creditable affair for a starter. Pelham Bay Park is the property of the City of New York, but the grounds comprising thirty-five acres and the historic Bartow Mansion have been leased to the International Garden Club which has undertaken to beautify the grounds, establish trial gardens, hold frequent exhibitions in tents and in the open, to promote the preservation of our native flora and to develop by example and practice correct plant knowledge and a better style of gardening in the United States. The old manor house, at the time of the Garden Club's start in spring of last year was in a very dilapidated condition. It has been thoroughly repaired and put in fine condition for the purposes of a club house and much substantial work has been done on the grounds already including a spacious sunken parterre with fountain and pool, and which is kept bright with successive plantings of bulbs, annuals and hardy perennial material. From the start A. Herrington has taken a deep interest in the work of development and has acted in the capacity of advisory superintendent, James Macgregor being gardener. Improvement will be carried on steadily and the list of society patrons given in the program for the recent show would seem to give assurance



East by J. H. Pepper

BARTOW MANOR AND OUTSIDE EXHIBITS.

that there will be no lack of money. A nursery has already been started and among the features to be introduced right away is a rose garden 300 x 300 and nothing will be spared to make it, if possible, the finest in this country. A range of greenhouses will be erected later on. The estate has a very interesting history, dating back to early colonial days and the royal grants by which the Pell family came into possession of this beautiful estate. The little family burial ground with its crudely chiseled gravestones is preserved as one of the most interesting antiquities of this section.

The prize schedule for last week's exhibition contained the names of some twenty-five national or local so-

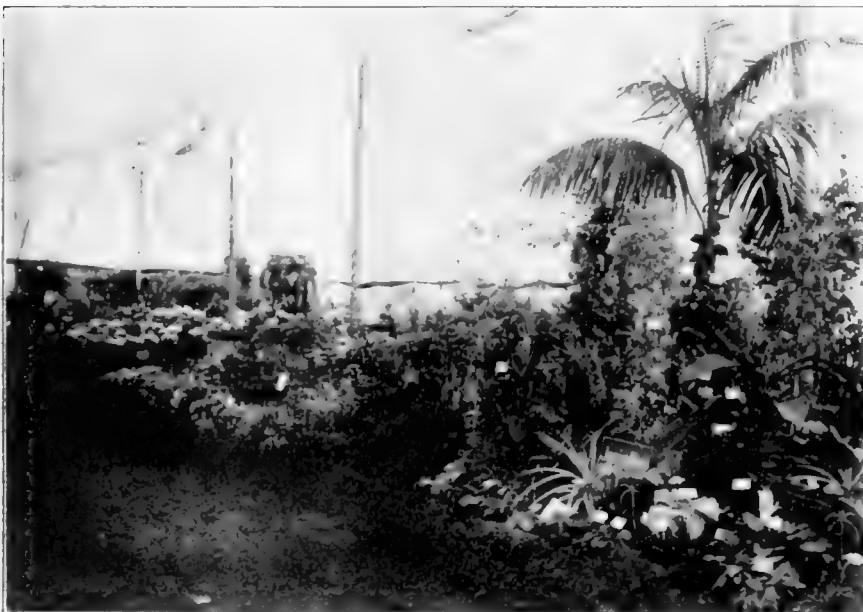
cieties and clubs as co-operating. The competition for the very liberal prizes offered was not as great as had been expected, the busy season undoubtedly preventing many from entering. There were many classes with no entries. The principal displays were made under a series of tents, the character of which is shown in the accompanying illustrations. The outdoor department, with the exception of the fine collections of conifers, bays, clipped boxwoods and hedge plants, was insignificant but the groups under the tents were of high character, beautifully arranged and, because of the favoring moist and pure air, the plants and flowers retained their freshness until the close of the fourth day to a degree that would not be possible in an ordinary exhibition hall. Without a doubt next year's affair will be bigger and better and the year following will show a still greater advance as plans are shaped and permanent improvements materialize.

Among the special features of last week's meeting were addresses by Geo. V. Nash on the "Bog Garden," A. P. Saunders on "Peonies," Geo. D. Pratt on "Conservation," Judge Alton B. Parker and others.

LIST OF AWARDS.

Commercial Classes.

- Group of Rhododendrons covering 100 sq. ft.: 1st, W. A. Manda, So. Orange, N. J.; 2d, F. R. Pierson Co., Tarrytown, N. Y.
- Group of Hardy Ornamental Flowering Trees and Shrubs covering 200 sq. ft.: 1st, Julius Roehrs Co., Rutherford, N. J.; 2d, W. A. Manda.
- Group of Orchids, arranged for effect, covering 75 sq. ft.: 1st, Julius Roehrs Co.; 2d, Lager & Hurrell, Summit, N. J.
- Group of Stove and Greenhouse Foliage and Flowering Plants, covering 100 sq. ft.: 1st, W. A. Manda; 2d, Julius Roehrs Co.
- Group of Ferns and Selaginellas, covering 100 sq. ft.: 1st, W. A. Manda; 2d, F. R. Pierson Co.
- Rock Garden, covering 250 sq. ft.: 1st, Julius Roehrs Co.
- Bay Trees, Pyramidal or Columnar, not less than 10 ft. in height: 1st, Julius Roehrs Co.
- Bay Trees, standard, head not less than 5 ft. in diameter: 1st, Julius Roehrs Co.
- Box Trees, Pyramidal, not less than 7 ft.



East by J. H. Pepper

VIEW IN TENT.

Exhibit of Julius Roehrs Co.

high: 1st, W. A. Manda; 2d, Bobbink & Atkins, Rutherford, N. J.

Box Trees, standard, head not less than 4 ft. in diameter: 1st, W. A. Manda; 2d, Julius Roehrs Co.

Box Trees, bush, not less than 6 ft. high: 1st, W. A. Manda.

Box Trees, 6 trained plants: 1st, W. A. Manda; 2d, Julius Roehrs.

Conifers, collection of 25 plants, 25 varieties, in pots or tubs: 1st, Isaac Hicks & Son, Westbury, N. Y.; 2d, F. R. Pierston.

Group of Bedding Plants, arranged for effect, covering 200 sq. ft.: 1st, Julius Roehrs Co.

Display of Peonies, 100 sq. ft.: 1st, John Lewis Childs, Inc., Flowerfield, N. Y.; 2d, Bobbink & Atkins.

Display of Cut Hardy Flowers, 100 sq. ft.: 1st, Bobbink & Atkins.

Display of Cut Sprays of Flowering Trees and Shrubs, 100 sq. ft.: 1st, Isaac Hicks & Son.

Display of Cut Roses: 1st, F. R. Pierston Co.

Private Classes.

Group of Hardy Flowering and Foliage Trees and Shrubs, covering 50 sq. ft.: 1st, Mrs. Wm. G. Nichols, Rye, N. Y., gard. Geo. N. Sullivan.

Group of Orchids, covering 25 sq. ft.: 1st, Clement Moore, Hackensack, N. J., gard. J. P. Mossman.

Group of Foliage and Flowering Plants, Stove or Greenhouse, covering 50 sq. ft.: 1st, Mrs. John H. Flagler, Greenwich, Conn.

Group of Hydrangeas, covering 50 sq. ft.: 1st, Mrs. John H. Flagler; 2d, Mrs. Geo. D. Barron, Rye, N. Y., gard. James Linane.

Group of Summer Flowering Bulbous and Tuberous Plants for effect, covering 50 sq. ft.: 1st, Mrs. Geo. D. Barron.

Display of Cut Iris Flowers, 50 sq. ft.: 1st, Mrs. A. M. Booth, Gt. Neck, N. Y., gard. E. Fardel.

Display of Cut Hardy Flowers, 50 sq. ft.: 1st, Mrs. Wm. G. Nichols.

Special Awards.

Collection of Tulips—Wm. Shillaber, Essex Falls, N. J., gard. J. P. Sorenson.

Display of *Nemesia compacta* Triumph—Wm. Shillaber.

Group of Foliage and Flowering Plants, 100 sq. ft.—Mrs. A. M. Booth.

Hemerocallis Gold Dust and Lava—John Lewis Childs, Inc.

Calceolarias, hybrids—Adolph Lewisohn, Ardsley, N. Y., supt. J. Canning.

Brassia verrucosa—Miss Scheffler, Sangabuck, Conn., gard. Adam Paterson, silver medal.

Collection of Herbaceous Peonies, seedlings—Miss Scheffler, silver medal.

Calceolaria Stuartii—Miss Scheffler.

Vase of Outdoor Grown Sweet Peas—Miss Scheffler.

Collection of Cut Flowers from Shrubs—Mrs. Wm. G. Nichols.

Exhibit of School Garden plantings, Model Gardens, etc.—Dept. of Parks, Boroughs of Manhattan and Richmond.

Collection of Cut Annual, Perennial and Bulbous Flowers—Harry A. Bunyard Co., New York.

TO PRESERVE OUR NATIVE FLORA.

Leaflet No. 27 of the Society for the Protection of Native Plants.

We have no new message this year, but we want to remind our members of our bed-rock conviction that very many flowers of each species must be allowed to go to seed if our woods, fields, and roadsides are to retain the loveliness of wild-flower growth, and that the existence, even, of the rarer species is threatened by our careless picking. Cultivation and building necessarily restrict the areas where wild flowers can flourish, and we must endeavor to give them the best chance of holding their own in the places which are left to them.

Even when all this country was wild, the Indian, with keen and unspoiled powers of observation, had an instinctive feeling that flowers should not be ruthlessly destroyed, but should be enjoyed in their natural surroundings.

The following passages are quoted from "The Indian Today," written by Dr. Charles A. Eastman, a descendant of the Sioux tribe, who bears the Indian name Ohiyesa. He lived among his own people during his boyhood, so that he possesses both by inheritance and experience the idealistic philosophy of the Indian people.

"In his sense of the æsthetic, which is closely akin to religious feeling, the American Indian stands alone.

"In accord with his nature and beliefs, he does not pretend to imitate the inimitable, or to reproduce exactly the work of the Great Artist. The Indian did not paint nature, not because he did not feel it, but because it was sacred to him. He so loved the reality that he could not venture upon the imitation. That which is beautiful must not be trafficked with, but must be only revered and adored. It must appear in speech and action. The symmetrical and graceful body must express something of it. Beauty, in his eyes, is always fresh and living, even as God Himself dresses the world anew at each season of the year. . . . This is the spirit of the original Amer-

ican. He holds nature to be the measure of consummate beauty, and its destruction as sacrilege. . . . I have seen in our midsummer celebration cool arbors built of fresh-cut branches for council and dance halls, while those who attended decked themselves with leafy boughs, carrying shields and fans of the same, and even making wreaths for their horses' necks.

"But, strange to say, they seldom made a free use of flowers. I once asked the reason of this. 'Why,' said one, 'the flowers are for our souls to enjoy; not for our bodies to wear. Leave them alone, and they will live out their lives and reproduce themselves as the Great Gardener intended. He planted them: we must not pluck them, for it would be selfish to do so.'

NEW YORK STATE FAIR.

The sixty-seventh annual fair will be held at Syracuse on Sept. 11 to 16, 1916. Department I is devoted to flowers and pot plants, for which 170 prize classes have been provided, the premiums offered in the preliminary schedule totalling \$2,536.75. Charles S. Wilson is the commissioner in charge and David Lumsden, of Ithaca, will act as superintendent. Judging will begin on Monday, Sept. 11. Sept. 2 is the day for the closing of entries. In most of the classes 1st, 2nd and 3rd premiums are offered. For collection and display of roses \$100.00, \$50.00 and \$25.00 are offered. In the plant section there are some equally attractive prizes; in fact the amounts offered are liberal all through and we advise our readers to send for a copy of the schedule and make a try for some of the "mazuma."

A ROSE GARDEN FETE.

One of the notable events of this week was the opening to the public, on Thursday afternoon, of Admiral Aaron Ward's beautiful rose garden at Willowmere, Roslyn, L. I., N. Y. E. H. Wilson, the explorer and plant collector of Arnold Arboretum, Boston, lectured on the history of the Rose and its evolution through hybridization. The affair was under the patronage of Mrs. Robert Bacon, chairman of the American Committee of the American Ambulance Hospital, and a number of the leading society ladies of New York. The proceeds of the lecture and the bazaar will be devoted to the American Ambulance Hospital in Paris.

Clyde L. Wilkins, of Wilton, who was appointed this week Maine State horticulturist, is one of the youngest state officials. He is only 24, but has been assistant horticulturist during most of the administration of Commissioner Guptill. Mr. Wilkins is a son of Wilbur W. Wilkins, a farmer of Wilton, who carries on an orchard, where the young horticulturist got his first insight into the science. Young Wilkins graduated from Wilton Academy in 1912, and then studied for two years at the University of Maine, following which he was principal of the High School in Liberty. While at college he helped pay his expenses by milking the University cows.



VIEW IN TENT.
Exhibit of W. A. Manda.

Photo. by J. H. Papp

CLUBS AND SOCIETIES

FLORISTS' CLUB OF PHILADELPHIA.

EDMUND DAVIS, the famous wit, philosopher and poet, was the speaker at the evening at the monthly meeting of this club held on June 6th. His subject was "Facts," which he illumined with science, sense, scintillation and humor, new, to the delight of the members. The audience was so large that the regular club rooms had to be abandoned for the larger hall upstairs. The evening wound up with games and refreshments and a jolly good time generally. The speaker at the July meeting will be Dr. John H. Washburn.

MASSACHUSETTS HORTICULTURAL SOCIETY.

Change of Dates of the Peony Exhibition.

On account of the lateness of the season the Peony Exhibition of the Massachusetts Horticultural Society scheduled for June 10 and 11 will be postponed to Saturday and Sunday, June 17 and 18.

WILLIAM P. RICH, Sec.

The June meeting of the Cincinnati Florists' Society will be held Monday, June 12th. Important business is coming before the meeting.

The Annandale (N. Y.) Rose Show will be held on Tuesday, June 13, and Wednesday, June 14 (Commencement Day of St. Stephen's College).

The annual Peony Exhibition of the Massachusetts Horticultural Society will be held at Horticultural Hall, Boston, on Saturday and Sunday, June 17 and 18. Peonies are liberally provided for in the prize schedule, as are also rhododendrons, irises and hardy herbaceous flowers.

The Dalton (Mass.) Horticultural Society, which has just been formed, will hold an exhibition at the Y. M. C. A. building Aug. 25 and 26, and all persons intending to exhibit must fill out the blank furnished, not later than Aug. 21, and return it to the chairman, W. S. Dunn, manager of Flintstone farm.

Rutland, Vt., will see at least two flower shows this season, as the Garden Club plans to hold one this month and one in August, in which all of the nature and flower lovers of the city are asked to compete. The Garden Club desires first of all to beautify the city and the grounds of the various residences and to accomplish this it is offering these shows as an incentive. A peony show will be held this month, probably the last

Meetings Next Week

Monday, June 12.

Cleveland Florists' Club, Hotelenden Hotel, Cleveland, Ohio.
Gardens and Flowers Club of Baltimore Florist Exchange Hall.
New York Florists' Club, Grand Opera House, New York City.
Rochester Florists' Association, 26 Main St., East Rochester, N. Y.

Tuesday, June 13.

Newport Horticultural Society, Newport, R. I.

Wednesday, June 14.

Cincinnati Florists' Society, Jabez Elliott Flower Market, Cincinnati, O.
Dutchess County Horticultural Society, Poughkeepsie, N. Y.
Lenox Horticultural Society, Lenox, Mass.
Morris County Florists' and Gardeners' Society, Madison, N. J.
Nassau County Horticultural Society, Pembroke Hall, Glen Cove, N. Y.

Thursday, June 15.

Essex County Florists' Club, Kreuzer Auditorium, Newark, N. J.
New Orleans Horticultural Society, Association of Commerce Bldg., New Orleans, La.
North Westchester County Horticultural Society, Mt. Kisco, N. Y.
Tacoma Florists' Association, Maccabee Hall, Tacoma, Wash.

Friday, June 16.

North Shore Horticultural Society, Manchester, Mass.

COMING EXHIBITIONS.

June 9-10, San Francisco.—American Sweet Pea Society, Palace Hotel.

June 9-10, New York City.—American Peony Society, Meeting and Exhibition, American Museum Natural History.

June 17-18, Boston. Peony Exhibition, Massachusetts Horticultural Society, Horticultural Hall.

June 13, Oyster Bay, L. I., N. Y.—Rose Show, Oyster Bay Horticultural Society.

June 16, Providence, R. I.—Summer Show of Rhode Island Horticultural Society.

June 16-17, Mamaroneck, N. Y.—Summer Show, Westchester and Fairfield Horticultural Society.

June 22, Worcester, Mass.—Rose and Strawberry Exhibition, Worcester Horticultural Society.

June 24-25, Boston.—Rose and Strawberry Exhibition, Massachusetts Horticultural Society, Horticultural Hall.

June 27-28, Hartford, Conn.—Summer Show of Connecticut Horticultural Society.

June 28-29, Newport, R. I.—Newport Garden Association and Newport Horticultural Society, on the grounds of the Garden Association.

July 14-15, Bar Harbor, Me.—Annual Show of American Sweet Pea Society.

July 20, Worcester, Mass.—Sweet Pea Exhibition, Worcester Horticultural Society.

August 3, Oyster Bay, L. I., N. Y.—Dahlia Show, Oyster Bay Horticultural Society.

August 11-12-13, Boston.—American Gladiolus Society, Horticultural Hall.

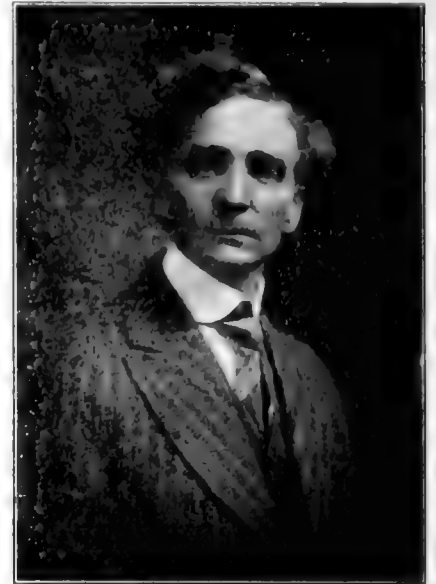
August 24, Worcester, Mass.—Gladiolus Exhibition.

Sept. 2-9, Cleveland, Ohio.—Industrial Exhibition and Fair.

Syracuse, N. Y., Sept. 11-16.—New York State Fair.

Sept. 12-13, Providence, R. I.—Rhode Island Horticultural Society, Narragansett Hotel.

week in June. A good many local people who have seldom, if ever, planted shrubs or flowers about the grounds, have done so this year.



G. A. KAUFF.

President-elect of Missouri State Florists' Association.

A NEW EXOCHORDA.

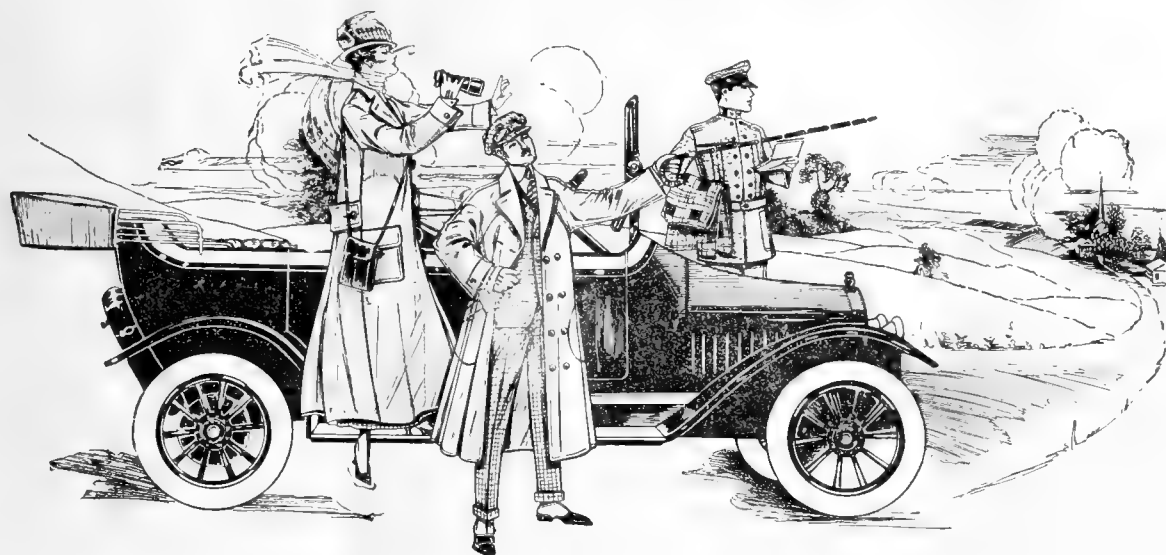
Exochorda Giraldui Wilsonii. The Chinese Pearl Bush (*Exochorda racemosa*) has long been a familiar and much admired shrub in many American gardens on account of its showy racemes of large pure white flowers. Old specimens assume an open and not a very attractive habit, and lose much of their early beauty. The variety (*E. Giraldui*) which was discovered by Wilson in western China and named for him, although in its native country it is a wide-spreading shrub, in cultivation here grows like a tree with a single straight stem and comparatively short branches which form a narrow pyramidal head. The flowers are much larger than those of the old-fashioned Pearl Bush, and this new introduction promises to be a better garden plant. It is now well established in the Arboretum where several plants are now in flower, and in other Massachusetts gardens. The Chinese *Exochorda* is best known as *E. grandiflora*, but the older and correct name is *E. racemosa*. *E. macrantha*, an interesting hybrid between the Chinese *E. racemosa* and *E. Korolkowii* from central Asia, is in flower. The flowers and foliage resemble those of the Chinese plant but the branches, like those of its Turkestan parent, are much more upright in growth.—*Arnold Arboretum Bulletin*.

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Obituary

Jonathan Nash.

Mr. Frank I. Moore
and
Mr. Henry Hentz, Jr.,
deeply regret to announce that their
Dear Friend and Partner
Mr. Jonathan Nash
passed away this Saturday morning
May 27th, 1916

A black-bordered card bearing the foregoing words has reached us. There are many connected with the flower business, ourselves included, who will feelingly subscribe to the sentiment carried by this brief but expressive announcement. Following so closely on the death of John Kral, who was head salesman for Moore, Hentz & Nash, the news of Mr. Nash's passing away when his convalescence was seemingly assured came as a stunning blow to the florist trade of New York City. Mr. Nash was born in Essex, England, in 1853. He came to this country 22 years ago and one year later entered the employ of the New York Cut Flower Company, afterwards becoming one of the firm of Moore, Hentz & Nash, wholesale florists. He was a gentleman of kindly disposition and unsullied character, an able and broad-minded business man, and his passing away is a great loss to the business he so faithfully followed.

The funeral was held at Grace Church on May 29 and a large representation of every department of the business was present. The pall bearers were Messrs. F. L. Moore and Henry Hentz, Jr., his business partners; C. L. Roberts and John Pritchard, representing the Bedford Floral Co.; Jos. Millang, representing the N. Y. Cut Flower Co., and Mr. Tanner, representing the retail trade. The employees of the firm also followed the pall bearers. Burial was at Woodlawn cemetery. There were many beautiful floral tributes, including a wreath from the clerks and salesmen and a blanket of lilies of the valley with cat-tleas sent by the firm. Lily of the valley was Mr. Nash's favorite flower ever since the evening long ago when the young lady who afterwards became his bride wore these flowers at a regimental ball given by the Essex Yeomary, of which Mr. Nash was a member. Other tributes were a design in American Beauty roses from the directors of the New York Cut Flower Co., a wreath of orchids from Traendly & Schenck, a design in roses from the Bedford Floral Co. and a

standard wreath of orchids from the Greek American Florists' Association. After the funeral services many of the flowers were distributed among the



JONATHAN NASH

poor and sick in Grace Church parish. Mr. Nash is survived by his widow, a daughter and three sons, one of the latter, A. S. Nash, being now associated with the firm.

James McBride.

The body of James McBride, a landscape gardener, who had not been seen since last Tuesday, was found in bed at his home on Kenoza avenue, Haverhill, Mass., by Frank Whitehouse of the fire department and Motor Cycle Policeman Joseph U. Ryan, who broke into the house. Medical Examiner John F. Croston found memoranda from Boston brokers which would indicate that Mr. McBride owned a large amount of valuable stock.

WRONG IMPRESSIONS ABOUT GLADIOLUS GROWING.

My attention has been called to an article in the Country Gentleman on the growing of gladiolus bulbs and blooms as a crop for farmers. Some remarkable statements about profits are made. What is the truth about it? E. F. G.

The many well-known and some of the newest varieties of Gladioli are beautiful and valuable to grow in the home garden, and the cultivation of them should be encouraged for several reasons. They are easy to grow, and bulbs of such varieties as America, Mrs. Francis King, and many others are very moderately priced. The flowers are delicate yet showy, and when cut keep a long time in water. In the article referred to by E. F. G., the farmer is urged to plant them commer-

cially, and a gross profit of \$4,000 per acre promised on Panama. The farmer is advised to plant fourth size bulbs, which are said to produce good to high grade flowers, and additional bulbs.

A Gladiolus bulb of one-half to three-quarters inch would not be bought by any florist to use for cut flower purposes, as it will produce a small flower that would be practically unsalable on the wholesale markets, which is proven by the tens of thousands that were thrown out on the New York market the past two seasons. The finest America and Mrs. Francis King often did not bring \$1 per 100 in New York the past season, and these flowers were grown from bulbs averaging 1½ to 2½ inches in diameter. The small half-inch bulb is used for growing a larger sized bulb for flowering purposes the following season.

If you buy 1,000 large, or small, half-inch bulbs they will each produce one bulb for the next season's use and a number of small corms which require four years' growth to reach the large flowering size. The bulbs should be planted early in the spring, and in order to grow a good strong bulb from the half-inch size, the flower should either be left on the plant or be cut without a stem, as all the leaves should be left on the bulb to mature it properly. Thorough cultivation must be given to the end of the growing season. Figure just about how much you think it will cost you to weed and cultivate a lot of Gladioli, from early spring to the first frost. I feel sure you will find it cheaper to buy bulbs than to try to grow them.

I have purchased this winter for forcing largest size America and Mrs. Francis King at \$5 per 1,000 from a grower who planted 30,000 the past season and did not make expenses. A neighbor florist who has been growing 50,000 each season has sold a large proportion of his stock for the same reason. He intends growing some of the newer varieties for a few seasons, such as Panama, Peace, Augusta, and several others. Salesmen from Holland have been offering large lots of America, small size, as low as \$1.50 per 1,000.

Any farmer before going into this business should arrange for an outlet for his flowers, as I know of instances where such growers have gone to large commission houses, to find them so overloaded by regular, all-the-year consignors that they said they could not possibly handle any more stock. I was told of a young woman who went to a large Philadelphia commission house and begged them to sell gladioli for her. When told they could not possibly handle any, she began crying, and mentioned a number of other sources of outlet she had tried to no avail, and stated she read in some paper what a fortune there was in the business. It is indeed unfortunate that horticultural papers should allow such articles in their columns without investigation. The paper that protects its subscribers against such visionary schemes for money-making, as does The R. N.-Y. is of inestimable value and deserves a boost by every reader.—Elmer J. Weaver in Rural New Yorker.

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6 feet	15.35	17.35

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One Week's Imports.

Imports at the port of New York of horticultural material for the week ending May 26th were recorded as follows:

Bulbs—France, \$12; Netherlands, \$327; England, \$65; Hongkong, \$420.

Plants—Belgium, \$28,724; France, \$174; Italy, \$25; Netherlands, \$6,156; England, \$2,132; Bermuda, \$40; Guatemala, \$49; Cuba, \$15; Japan, \$12; Brazil, \$113; Colombia, \$464.

Red Clover Seed—France, \$1,255; Italy, \$13,200.

Clover Seed—Netherlands, \$3,518; England, \$3,041.

Other Seed—France, \$5,960; Italy, \$253; Malta, \$324; Netherlands, \$9,548; Germany, \$586; Mexico, \$1,313; England, \$20,802; China, \$2,792; British India, \$17,752; British East Indies, \$229; Hongkong, \$396; Morocco, \$4,646.

Nitrate of Potash—England, \$74,391.

Nitrate of Soda—Chile, \$50,885.

Other fertilizers—Scotland, \$77; Mexico, \$632.

Kainit—Cuba, \$300.

Seedsmen wishing to send seeds to the Argentine Republic should conform to certain requirements, which as stated by the Consul General of the Argentine Republic at New York City are, that the seed grower must make an affidavit before a notary public, the notary public attaching his jurat and official seal, stating that the seeds are free from diseases. A similar affidavit should be obtained from the county clerk and both certificates or affidavits sent to the Consul General of the Argentine Republic at New York City for certification, the fee for which is \$2.00.

CURTIS NYE SMITH.

A SELECTION OF DAHLIAS.

R. Vincent, Jr., gives as his selection of the best in all classes, as follows:

Best peony-flowered: Bertha von Suttner, Geisha, Germania, Gloire de Baan, Queen Wilhelmina, Queen Emma.

Best show: A. D. Livoni, Chas. Lanier, Ethel Maule, Sauve, Mme. Moreau, Yellow Duke, Zebra.

Best cactus: Countess of Lonsdale, Golden Gate, J. H. Jackson, Kalif, Marguerite Bouchon, Rene Cayeaux, Sweetbriar, Wodan, Wolfgang von Goethe.

Best pompon: Alewine, Allie Mourey, Indian Chief, Little May, Snow-clad.

Best decorative: Delice, Hortulanus, Fiet, Jack Rose, Jean Charmant, Le Grand Manitou, Papa Charmant.

Best Single Century: Ami Barillet, Fringed 20th Century, Rose Pink Century, Sensation, Setting Sun, White Century.

BREEDING FOR NOVELTIES

The editor papers to this magazine made recommendation, first, that *Gladiolus* seed be sown too thickly in order to destroy the weakling at the start and second, that strikingly aberrant forms be avoided and only normal forms of moderate characteristics be used in crossing.

That is exactly right if a good high average commercial product is desired, but exactly wrong if the object is rapid improvement of a specific kind. Extreme variations when they first appear are very apt to be accompanied by weakness and a faulty constitution, but these can be bred out by proper crossing, and the unique quality, otherwise unattainable, superposed on a robust and vigorous habit.

Experts in heredity estimate that each parent transmits about one-seventh of its own peculiar qualities to its offspring; for example, if two whites, each the offspring of colored sorts, were mated, about two-sevenths of the seedlings would show a decided tendency to whiteness. Mating these whites together should produce whiteness in a little over half the grandchildren, and so with other qualities. Nearly all our finest kinds have a long line of robust ancestors, and so reversion to robustness comes easily by crossing with a robust mate. Often it is the weaklings that show the highest development of some desired character, and this character is precious, because it can be fixed upon a robust constitution by repeated crossing.

For example, suppose we wish to produce a pure white, with flowers six inches across, of great substance, and borne on stems six feet high. Mating average normal "near-whites" would never get it, but if we mate the purest white—say a weak sort like *Europa* with the tallest and most robust near-white, like *Peace* or *Augusta*, and the resulting tallest and most robust near-whites back to *Europa*, and if necessary, repeat the operation, if we use enough material, we will certainly get seedlings as white as *Europa* and with the vigor of the others; and proper selection and intercrossing of these would in the end give what we want. Following this plan for only two generations has given me a strain coming mostly white with some as white as *Europa* and about 1½ inches across the flower, on strong stems, and some nearly white, large-flowered, and six feet high, and, of course, the work is only begun.

If a breeder gets a seedling with some unique and desirable character, but otherwise worthless, it is merely a matter of time and patient and judicious crossing to impose that character upon a robust and satisfactory variety, but he must make up his mind as to what he wishes to accomplish, keep track of his pedigrees (approximately, at least), and be willing to persevere through several generations in order to attain his ideal.

Theodore L. Mead, in *The Modern Gladiolus Grower*.

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Sterling, Ky.—Mt. Sterling Seed Co., capital stock \$50,000. Incorporators, I. F. Tabb, M. O. Cockrell, J. H. Smith and J. L. Brown.

Jacksonville, Fla.—Dr. H. Dux & Bros., capital stock, \$30,000. Incorporators, H. M. Dux, M. M. Dux and John M. Dux.

Boston, Mass.—Gaedeke Greenhouses, Inc., capital stock, \$20,000. Incorporators, Fred D. Sperry, Julius Snyder and B. A. Snyder.

New York, N. Y.—Geo. W. Crawbuck Company, Inc., florists' supplies, capital stock, \$5,000. Incorporators, H. W. Gallaer, H. T. Phillips, G. W. Crawbuck.

CATALOGUES RECEIVED

W. Atlee Burpee & Co., Philadelphia, Pa.—1916 Wholesale Prices on Turnip, Winter Radish, Ruta Baga and Spinach Seed.

Baltimore, Md.—A mess hall and kitchen for Camp Conoy, recently purchased by the Boys' Department of the Y. M. C. A. on South river, near Edgewater, has been given by Charles J. Bolgiano as a memorial to his mother. The hall will be 25 by 52 feet, and will contain an up-to-date kitchen and pantry, as well as dining-room for 150 boys. Mr. Bolgiano will have the building erected in four days, and a large force of carpenters will be taken to the scene to rush the work. It will cost about \$1200. It is proposed to develop this into the finest camp for boys near any big city in the country. The site is an ideal one, hallowed by memories of Indian tribes.

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G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

WORCESTER, MASS.

Randall's Flower Shop

HARRY L. RANDALL, Proprietor.

Member Florists' Telegraph Delivery Association

Of Interest to Retail Florists

NEW FLOWER STORES.

Independence, Ia. R. N. Whitney.

Chicago, Ill. John Mangel, Edge-water Beach Hotel

Fresno, Cal. Kate Parsons, removing to 1136 J Street

Montreal, Can. F. W. Bertrand, St. Catherine street, West.

Appleton, Wis. Peter J. Boreolos, Business Men's Asso. rooms.

Kansas City, Mo. Fabian Flower Shop, 1715½ Central avenue.

Providence, R. I.—The Empire Floral Company, 71 Empire street. John J. Powers is the proprietor.

BUSINESS TROUBLES.

Wakefield, Mass.—Charles C. Ball, Inc., Yale Ave., florists; liabilities, \$16,427.62; assets, \$114.90.

Memphis, Tenn.—Holly & Malone, florists, South Dudley street, voluntary bankruptcy; assets, \$1,302; liabilities, \$3,328.

Montgomery, Ala.—Morning View Floral Co., voluntary petition in bankruptcy; liabilities, \$6,729.11, assets, growing plants and flowers.

Norwich, N. Y. Walter N. Lockrow, florist, formerly of Schenectady, N. Y., has filed a petition in bankruptcy in the federal court, N. Y., with liabilities of \$1,286 and assets of \$834.

NEWS NOTES.

Falmouth, Mass.—Mrs. A. G. Cushman has resigned her position with Nicol, the florist.

E. Greenwich, R. I.—Daniel King has temporary quarters for his floral business in the Arnold Block, Main street.

Cincinnati.—Pierce Julian, the leucothoe man, of Roan Mountain, Tenn., who is a delegate to the republican convention at Chicago, this week, stopped in this city on Monday.

Tom Windram left for Leesburg, Fla., Monday.

WHY

Jinn The Florist?
4 Park St., Boston, Mass.

Because Satisfaction
Is Guaranteed

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address. Dardsflor

JOHN BREITMEYER'S SONSCor. Broadway and Gratiot Aves.
DETROIT, MICH.**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery Association.

**GUDE BROS. CO.**
WASHINGTON, D. C.

Member Florists Telegraph Delivery

**IN THE
National Capital**

At your service to deliver Flowers
or Designs on Order by Tele-
graph or otherwise. Prompt
Reliable Service.

GEORGE H. COOKEConnecticut Ave. and L St.
WASHINGTON, D. C.

Rochester, N. Y.

**J. B. KELLER SONS,
FLORISTS**

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2810
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"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

**A. T. BUNYARD
NEW YORK**

418 Madison Avenue at 48th Street.

WE GUARANTEE SATISFACTION
MEMBER F. T. D. A.

CHICAGO WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON

915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio

Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1836 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

SALTER BROS.
— FLORISTS —
38 Main Street, West
ROCHESTER, - N. Y.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1532.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.
Members of Florists' Telegraph Delivery.

KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE

125,000 Sq. Ft. of Glass
WORCESTER, MASS.

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and properly
filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl
St.

Albany, N. Y.—The Rosery, 23 Steuben
St.

Albany, N. Y.—William C. Gloeckner, 97
State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont
St.

Boston—Zinn the Florist, 4 Park St.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th
St.

Cleveland, O.—The Smith & Feters Co.,
735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643
Broadway.

Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

New London, Conn.—Reuter's.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. corner 44th St.
and Madison Ave.

New York—Max Schling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.

New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

Rochester, N. Y.—Salter Bros., 38 Main
St., West.

San Francisco—Pellicano, Rossi & Co., 123
Kearny St.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—H. F. A. Lange.

Worcester, Mass.—Randall's Flower Shop,
3 Pleasant St.

Penn The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 Tremont St., BOSTON

REUTER'S Members Florists
Telegraph
Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between

New Haven and Providence

ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of
TORONTO

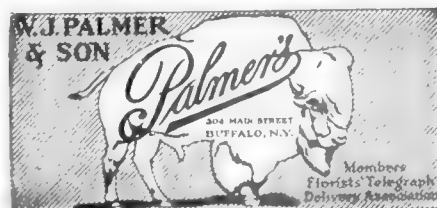
Delivered on mail or telegram order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES
Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.



J. H. SMALL & SONS

FLORISTS NEW YORK and WASHINGTON

Announce the removal of their New York store to

505 MADISON AVENUE, AT 52d STREET

WASHINGTON, D. C.
15th and H Streets

Floral and Landscape Work

NEW YORK—Waldorf-Astoria
and 505 Madison Ave.

NEWS ITEMS FROM EVERYWHERE

BOSTON.

Joseph Dowd, recently with Thomas F. Galvin, New York, has been transferred to the Boston store of the corporation.

Silverman, of Winter street, has purchased two new auto trucks, one of which will be sent to the New London store and the other kept for delivery service in Boston.

The grounds at Holm Lea, Prof. C. S. Sargent's estate in Brookline, were open for the public to visit on Saturday and Sunday, June 10 and 11. The rhododendrons, irises and many other June flowering subjects were never more attractive here than they are this season.

The Polish wire-workers of Boston walked out on their employers only to return when an eight per cent. raise and Saturday afternoons were conceded to them. With the 200 per cent. increase in price of copper wire and the eight per cent. increase in wages florists' wire frames will soon go sailing.

The annual exterior plant decoration on the Wm. Filene building is exceptionally unique and interesting this year. Window boxes filled with geraniums and Japan maples, form the basis of the decoration scheme and streamers of English ivy and other trailers make a decidedly pleasing picture. John D. Twombly, of Winchester, attends to this work each year.

Mayor Curley last Monday announced the withdrawal of the name of John H. Dillon, to be chairman of the Park and Recreation Commission. Dillon's name was before the Civil Service

Commission for reappointment, but a week ago he was subjected to an attack by the Good Government Association, which branded him as inefficient and in other ways undesirable. The Civil Service Commission had planned a public hearing on the appointment. The Mayor declares that Dillon will continue to hold office and that confirmation of a reappointment is not necessary. He charges that Secretary Bottomly, of the Good Government Association, is attempting to play politics and that a short time ago Bottomly opposed public hearings for appointments.

PROVIDENCE, R. I.

The florists of Providence and other sections of Rhode Island turned out 77 strong in the "preparedness" parade in Providence last Saturday, which proved the greatest civic demonstration ever witnessed here. Robert Johnston was marshal of the Florists' Division and his aids were Alexander Macrae and Maxwell Villar. The firms represented in the division included the following: Nelson W. Aldrich estate, Johnston Brothers, William Appleton, T. R. Peterson, M. Sweeney, O. H. Williams & Sons, Westminster Greenhouses, S. H. Toher & Sons, Joseph Koppleman & Company, Smith the Florist, William Bowers, Lawrence Hay, William Hay, T. O'Connor, Willis S. Pino, George Johnson & Son, John A. Macrae, Alfred M. Powell, R. J. Taylor, E. E. Howard, Francis Luther, Thomas Mack and V. Bernarducci. The committee in charge of the arrangements for the Florists' Division were Robert Johnston (chairman), James Dillon, Mrs. I. Dickinson, William H. O'Connor, Lawrence Hay, Alexander Macrae and Herbert West. S. A. G.

Baldwinville, Mass.—Frank Cogswell of New Salem has purchased two 100-ft. greenhouses here and will engage in cucumber forcing.

CHICAGO.

Some big orders are going out today for the Billings-Nickless wedding. Both church and house will be profusely decorated, the former banked with peonies and lilies against cibotiums, and the latter calling for quantities of roses. C. A. Samuelson has the greater share of the orders judging from the way his buyer was picking up stock.

August Poehlmann does not share the opinion of many that the American Beauty is declining in value as a commercial flower but only wishes that their 18 houses devoted to this flower, numbered 36 instead. Orchid plants are coming from this firm's collector in South America and another collector is now working in the Philippines. It is between seasons for cutting but the gigas are doing exceptionally well and the cool spring favors a fine crop soon.

"Preparedness" was celebrated to such an extent June 3rd that local florists missed a large part, and in some cases nearly all of their Saturday trade. With all the other lines of business suspended, it would be little trade outside of funeral and wedding orders that would come to them and many closed their stores at noon. When "old glory" is in every conspicuous place possible, even flowers are forgotten for the time. Some of the down-town florists had appropriate window decorations.

May covered a range of 50 degrees temperature with less sunshine than normal. The month was cold and windy and shrubbery was in bloom but a few days. Outdoor tulips were

FLOWERS BY TELEGRAPH

SAN FRANCISCO

CALIFORNIA

Pelicano, Rossi & Co.

129 KEARNY ST.

HIGH GRADE PLANTS

For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.

PROFITS PROFITS PROFITS

"HERE COMES THE BRIDE"

There's Money in June Weddings and June Graduations and Commencement Days for the Florist **WHO KNOWS HOW TO PLEASE.**

We can supply you with strictly up-to-date accessories, which you **must** have if you want to give satisfaction. Stock up now and have the goods to show customers. Send for prices and you will be astonished to see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

1129 Arch Street, PHILADELPHIA, PA.

blown to pieces almost as soon as they opened. The prolonged season has been a decided help to the plantsmen and nurserymen. Bedding stock is in unusually good demand and the quality generally excellent.

Peterson's Nurseries and the Geo. Wittbold Co. generously gave of their time and material in the decorations of the Blackstone Theatre where the Woman's Congressional Union lunches their party this week. The entire stage is crossed twice, low in the front and high in the back, by a white lattice with clinging vines, and the effect is very striking. At either end and in the hotel parlors are masses of hydrangea plants.

PHILADELPHIA.

Dennis T. Connor, of the Lord & Burnham Co., has recovered from his serious illness and went on duty again June 1st.

Commodore John Westcott's club opening at Waretown is scheduled for the 23rd inst. The invitations are not out yet and who the lucky ones are to be this year is not yet known.

The Strafford Flower Farms (Edward A. Stroud, prop.) devoted to the culture of carnations and doing also a local florists' business, have been leased by Alfred M. Campbell.

Charles Sim has been suffering from a severe attack of asthma and bronchitis the past few weeks. He left on June 8th for a short vacation. The sea breezes at Atlantic City ought to do him good.

OUT OF THE GINGER JAR.

Our old friend Duncan McCaw, late of Craig's and now on his own at Norwood, flashed a new delivery auto into town the other day and nearly blinded us all with its splendor. It's even got a coat of arms—besides the name and address of the firm—on the outside. And the motto: "Virtus coronat opus" (merit crowns the work)—"that's going some," isn't it? If Duncan dares to send in anything but first-class stock on that wagon, we are justified in shooting holes in the motto—and can say for ourselves "Vincit omnia veritas" (truth conquers all things). Gwan with your old Latin, Duncan; Give us some Gaelic. G. C. W.

PITTSBURGH.

David Fraser, supt. of H. C. Frick's Pittsburgh estate, spent a few days in New York last week.

Mrs. James M. McGrew is convalescing in Columbia Hospital after an operation for appendicitis. Mr. McGrew is head salesman for G. P. Weaklin & Co. Miss Helen Ingraham has been added to the sales staff of the same firm.

William A. Clarke of the Pittsburgh Cut Flower Co., with Mrs. Clarke, will be in the party of 180 Pittsburghers leaving next Tuesday to attend the Knights Templar Conclave at Los Angeles. Their intention is to be absent one month.

Owing to an unusual scarcity of laboring men, landscape work is prov-

ing somewhat of a disappointment. The orders for this work have been unusually large in numbers and dimensions, and if possible to carry out as was originally intended and expected, would have far more than compensated for any previous dearth of work in this line. As it is, however, the spring season of 1916 will long be remembered as a red-letter era in landscape architecture and gardening.

J. H. SMALL & SONS' NEW FLOWER STORE

A glance at the picture which we use as a cover illustration this week will perhaps give a much better idea of this palatial floral establishment than any wordy description that we may try to give, particularly as to dimensions and various statistics, which really count for but little. Messrs. Small & Sons feel that they have in this new place at 52nd street and Madison Ave., New York, the finest retail flower emporium on the continent and we are inclined to agree with them. Certainly they have the space and accessories for every department of the work and in decorative effect and artistic impression it would seem there is nothing more that could be added. The place is indeed an exhibition in itself and an object lesson in its daily-changed arrangement, in decorative art, where simplicity and elegance give expression to refined taste in everything that can make a leading metropolitan flower store worthy of the name.

A Florist's Necessity HART'S HANDY HANDLE

Fits securely on any standard pot and by the use of a little chiffon or ribbon gives you a Basket effect at a very small additional expense, increasing the price of your plants 100 per cent.

1	12 inches high, \$2.50 per doz.	4	24 inches high, \$5.00 per doz.
2	15 " " 3.50 " "	5	30 " " 6.50 " "
3	18 " " 4.00 " "	6	36 " " 9.00 " "

At Your Dealer's or Direct.

GEO. B. HART, Manufacturer, 24 to 30 Stone Street, Rochester, N. Y.

PEONIES

IN ANY QUANTITY

Extra fine dark pink and large white

Good Stock, \$4 per 100

The Best, \$6 per 100

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER Florists' Supplies

122 West 25th St., New York

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists
RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty
264 RANDOLPH ST., DETROIT, MICH.

Telephone 2860 Madison Square

WOODROW & MARKETOS WHOLESALE

Plantsmen and Florists

37 and 39 West 28th St., NEW YORK



DAVID WELCH

EDWARD J. WELCH

WELCH'S

Wholesale & Commission Florists

FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1961-1963

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

226 DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON June 8		ST. LOUIS June 5		PHILA. June 5	
Roses						
Am. Beauty, Special.....	15.00	to 25.00	15.00	to 25.00	20.00	to 25.00
" " Fancy and Extra.....	10.00	to 15.00	8.00	to 10.00	12.00	to 15.00
" " No. 1.....	1.00	to 6.00	1.00	to 9.00	3.00	to 10.00
Russell, Hadley.....	4.00	to 12.00	5.00	to 12.00	3.00	to 10.00
Killarney, Kichmond, Hillingdon, Ward, Extra.....	5.00	to 6.00	4.00	to 6.00	5.00	to 8.00
" " Ordinary.....	3.00	to 4.00	2.00	to 3.00	1.00	to 4.00
Arenburg, Radiance, Taft, Key, Extra.....	6.00	to 8.00	.....	.....	5.00	to 8.00
" " Ordinary.....	3.00	to 5.00	.....	.....	1.00	to 4.00
Ophelia, Mock, Sunburst, Extra.....	6.00	to 10.00	6.00	to 8.00	5.00	to 10.00
" " Ordinary.....	3.00	to 6.00	3.00	to 4.00	2.00	to 5.00
Carnations, Fancy.....	2.00	to 3.00	2.00	to 3.00	2.00	to 4.00
" " Ordinary.....	1.00	to 2.00	.75	to 1.00	1.00	to 1.50
Cattleyas.....	40.00	to 50.00	30.00	to 40.00	25.00	to 60.00
Dendrobium formosum.....	.....	to 35.00	.....	.....	.....	.....
Lilies.....	6.00	to 8.00	4.00	to 5.00	6.00	to 8.00
Lily of the Valley.....	2.00	to 5.00	3.00	to 4.00	2.00	to 5.00
Dahias.....	1.00	to 2.00	.25	to .35	.40	to 1.00
Mignonette.....	1.00	to 2.00	3.00	to 4.00	.....	.....
Snopdragon.....	3.00	to 6.00	3.00	to 4.00	9.00	to 8.00
Peonies.....	2.00	to 6.00	4.00	to 6.00	2.00	to 5.00
Gladioli.....	2.00	to 6.00	4.00	to 6.00	8.00	to 6.00
Calendulas.....	1.00	to 2.00	2.00	to 3.00	1.00	to 3.00
Stocks.....	1.00	to 3.00	2.00	to 4.00	1.00	to 3.00
Sweet Peas.....	.50	to 1.00	1.00	to 3.00	.40	to 1.00
Gardenias.....	12.00	to 15.00	10.00	to 20.00	.....	.....
Adiantum.....	.....	to 1.00	1.00	to 1.25	.....	.....
Saxilas.....	12.00	to 15.00	12.00	to 20.00	20.00	to 25.00
Asparagus Plumosus, & Spreng. (100 Bchs.).....	25.00	to 35.00	25.00	to 50.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELLICOTT ST. - - - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER OF

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 18th St., NEW YORK
Telephones: 1200, 2101, Madison Square.

MOORE, HENTZ & NASH

Wholesale Commission Florists

55 and 57 West 26th Street
Telephone No. 764
Madison Square New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 1336, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE 608 (MADISON SQ., NEW YORK)
609

JOHN YOUNG & CO.

WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.

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5871 Mad St. 119 W. 28 St., New York

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS

58 Willoughby St., Brooklyn, N. Y

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3576 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.

Wholesale Commission
READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

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1089 FARRAGUT 131 West 28th St., NEW YORK CITY

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.

WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST GRADE OF VALLEY ALWAYS
GARDENIAS, DAISIES, ROSES, CARNATIONS ON HAND

JAMES McMANUS, TELEPHONE 769
FARRAGUT 759 105 W. 28th St., New York

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, NEW YORK

Telephone 7062 Madison

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones 1684
1685 Madison Square

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS

	Last Half of Week ending June 3 1916		First Half of Week beginning June 5 1916	
American Beauty, Special	30.00	to 40.00	25.00	to 40.00
" " Fancy and Extra	10.00	to 15.00	10.00	to 15.00
" " No. 1	3.00	to 6.00	3.00	to 6.00
Russell, Hadley	3.00	to 20.00	2.00	to 30.00
Killarney, Richmond, Hillingdon, Ward, Extra	3.00	to 6.00	3.00	to 6.00
" " Ordinary	.50	to 2.00	.50	to 2.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 6.00	3.00	to 6.00
" " Ordinary	.50	to 2.00	.50	to 2.00
Ophelia, Mock, Sunburst, Extra	4.00	to 8.00	4.00	to 8.00
" " Ordinary	1.00	to 3.00	1.00	to 3.00
Carnations, Fancy	1.50	to 2.00	1.50	to 2.00
" " Ordinary	1.00	to 1.50	1.00	to 1.50

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MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 801)

been greatly in excess of what the market could absorb. This was especially the case with peonies of which the supply was ten times the demand. Of course this redundancy in the peony had a more or less depressing effect on all other lines. In the rose market Beauties and Hadley sell best. Other roses are very sluggish. Carnations are much more plentiful and prices have dropped considerably. There is a fair cut of orchids and the call for them is excellent. Cattleyas are especially good and come in very nicely for the June girl requirements, along with red roses. The delphinium and the gladiolus continue in good supply and of excellent quality with the demand very good, all things considered. Coreopsis has made its appearance and will no doubt find some sale while the novelty lasts.

The prices, supply and demands for cut flowers are considered fair for this season all around since Decoration Day. There are plenty of carnations and peonies, although at time of writing there is not an over supply of roses. Of the latter, the long-stemmed grades predominate, although the short-stemmed flowers are now coming in better than for some time.

An abundance of stock at very moderate prices dominates the market conditions here at present. The retailers report much trading and no complaints are made because of poor business. With the usual number of weddings and the summer graduation of schools and other institutions at hand the florists here predict that the present month will be exceptionally busy. White orchids were a prohibitive flower last week. Failing to get any of this stock from the leading growers in New England and New York, it became necessary to purchase in the Boston retail market.

While Memorial Day business was not as good as the year previous everybody is satisfied, but they say that more business could have been done had it not been for the boosting of prices by the wholesalers for this day. On the night after the bottom dropped out again. Retailers found that the public would not stand for the sudden rise in price. They bought heavy in the plant line. The market had been crowded up all week with good stock and low prices except on Memorial Day. Roses, carnations, sweet peas, cape jessamine, peonies and a lot of outdoor stock are in abundance and trade somewhat slow.

Albany, N. Y.—All the florists here are booked to participate in the "preparedness" parade which will take place on Wednesday, June 14. Another matter in which the trade and the Florists' Club especially are actively promoting is that of the presentation of bouquets to the school graduates, one bouquet to accompany each diploma. Thos. Tracey is chairman of a committee to wait upon the Board of Education to urge favorable action on this proposition.

PATRICK WELCH, WHOLESALE FLORIST

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MISCELLANEOUS	Last Half of Week ending June 3 1916		First Half of Week beginning June 5 1916	
Cattleyas	25.00	to 35.00	10.00	to 25.00
Dendrobium formosum	20.00	to 25.00	20.00	to 25.00
Lilies	3.00	to 5.00	2.00	to 5.00
Lily of the Valley	1.00	to 3.00	1.00	to 3.00
Daisies	.50	to 1.00	.50	to 1.00
Mignonette	1.00	to 3.00	1.00	to 3.00
Snapeadragon	2.00	to 6.00	2.00	to 6.00
Peonies	1.00	to 2.00	1.00	to 2.00
Gladioli	2.00	to 4.00	1.00	to 3.00
Calendulas	1.00	to 2.00	1.00	to 2.00
Stocks	1.00	to 2.00	1.00	to 2.00
Sweet Peas	.25	to .75	.15	to .75
Gardenias	4.00	to 12.00	4.00	to 12.00
Adiantum	.50	to 1.00	.50	to 1.00
Smilax	10.00	to 12.00	10.00	to 12.00
Asparagus Plumosus, & Spreng (100 bunches)	15.00	to 25.00	15.00	to 25.00

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A NEW WHOLESALE FLOWER HOUSE.

David Welch and Edward J. Welch announce that they have severed connection with the corporation of Welch Bros. Co. and have opened their wholesale flower market at 280 Devonshire street, Boston, under the title of Welch's. It is hardly necessary for us to say here that HORTICULTURE wishes Messrs. David and E. J. Welch abundant success in their new enterprise. Their whole business life has been spent in the wholesale flower and supply trade and their record is one of industry and integrity. The new headquarters which they have acquired is admirably adapted for their

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Consignments of
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NO DESIGNS MADE UP

purpose, located right in the flower market district and a complete equipment has been put in which meets every requirement for the reception, care and shipment of stock.

Taunton, Mass.—V. B. Olson has purchased E. F. Rose's greenhouses at 20 Bay street and will take possession July 1st.

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers. We have 22 years' experience behind us, and we do not expect a gold medal for doing our full duty by our consignors and customers. You cannot go very far wrong when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK
Phones 2036, 2037, 558 Farragut

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DECORATIVE PLANTS—Continued

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High Grade Plants for Retail Florists.
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A. M. Davenport, Watertown, Mass.
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DRACAENAS

Dracaena Indivisa, nice plants, 4 in., \$10 and \$15 per 100; 5 in., \$20 and \$25 per 100.
 Cash. CHAS. H. GREEN, Spencer, Mass.

EXCURSIONS

Hudson Navigation Co., New York City.
 To the Heart of Laisureland.
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GERANIUMS

R. Vincent, Jr. & Sons Co.
 White Marsh, Md.
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Geraniums out of 3½ inch pots, \$7.00 per 100. Cash please. LEONARD COUSINS, JR., Concord Junction, Mass.

S. A. Nutt, R. C., \$10.00 per 1000; 3 in., \$5.00 per 100; 4 in., \$8.00 per 100. FRANK LEITH & SON, Haverhill, Mass.

Geraniums, 3½ inch, in bud and bloom, \$7.00 per 100. S. A. Nutt, Poltevine, Vinca Variegated, 4 inch, heavy, \$12.00 per 100. Cash. CHAS. H. GREEN, Spencer, Mass.

GERANIUMS—1500—3½-in., 5 varieties assorted, good bedding stock, in bud and bloom, \$6.50 per 100, cash. 200 Fuchsias, \$7.00 per 100. WALKER THE FLORIST, No. Dighton, Mass.

GLADIOLI

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GLASS

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Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
 Peerless Glazing Point.
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GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish goods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

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HYDRANGEAS FOR SUMMER BLOOMING

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 Hardy, Northern Grown Stock.
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NURSERY STOCK

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- August Rolker & Sons, New York City
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- C. C. Trepel, Brooklyn, and New York
Nursery Stock and Propagating Plants
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NUT GROWING

- The Nut Grower, W. Adams, Ga.
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ONION SEED

- Leonard Seed Co., Chicago, Ill.
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Bermuda Onion Seed.

ORCHID FLOWERS

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PETUNIAS

- R. Vincent, Jr. & Sons Co., White Marsh, Md.
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- In all sizes. Special price-list on demand.
JULIUS ROEHR'S CO., Rutherford, N. J.

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- Peonies. The world's greatest collection,
1200 sorts. Send for list. C. BETSCHER,
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PECKY CYPRESS BENCHES

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- McHutchison & Co., New York City.
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PLANT TRELLISES AND STAKES

- Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

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Rose Prima Donna (Miss Paul Eubank).
- THE CONARD & JONES COMPANY
Rose Specialists.
West Grove, Pa. Send for offers.

SEASONABLE PLANT STOCK

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- Salvia splendens, out of 4 in. pots \$5.00
per 100. LEONARD COUSINS, Jr., Concord Junction, Mass.

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- Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
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- Metropolitan Material Co., Brooklyn, N. Y.
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SPHAGNUM MOSS

- Five Sphagnum moss, orchid pest and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

SWEET PEA SEED

- Ant. C. Zvolnek, Lompoc, Calif.
Good Medal of Honor Winter Orchid Sweet
Peas.
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TREE SURGERY

- The Davey Tree Expert Co., Kent, Ohio.

VASES

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VEGETABLE PLANTS

- R. Vincent, Jr. & Sons Co.,
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- Vegetable Plants. Golden Self Blanching
French Strain, fine plants, ready for the
pot, \$2.00 per 1000. Cash. Special prices
on large lots. BRILL CELERY GARDENS,
Kalamazoo, Mich.

- VEGETABLE PLANTS. By mail or ex-
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in large or small lots at reasonable prices.
We probably replace any that do not ar-
rive in 1st class condition. Leading var-
ieties: Cabbage, Tomato, Cauliflower, Cel-
ery, Sweet Potato, Asparagus, Rhubarb,
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Asters. Catalog free. HARRY E.
SQUIRES, Rensselaer, N. Y.

VENTILATING APPARATUS

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VERMICIDES

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VINCAS

- 13,000 Vinca Var., out of 4 inch pots, \$10.00
and \$12.50 per 400. Cash please. LEONARD
COUSINS, JR., Concord Junction, Mass.

- Vinea Var., 4 in., heavy, \$12.50 per 100;
good, \$10.00 per 100; extra heavy, \$15.00 per
100. WILLIAM CAPSTICK, Auburndale,
Mass.

WEED KILLER

- Pine Lyptol Chemical Co., New York City.
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New Offers In This Issue**BRANCHED RUBBER PLANTS
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NEW COTONEASTERS, BERBERIS AND AESCULUS.

Chinese Cotoneasters.

Cotoneasters are shrubs or rarely small trees of the rose family, related to the apples, pears and hawthorns. The genus has long been known in Europe and eastern Siberia, but it is only in recent years that it has been discovered that the largest number of species of these plants grows in China. The first Chinese species was known to botanists as early as 1832; forty-five years passed before another of these Chinese plants was recognized, and it was not until Henry and Wilson began the systematic exploration of the flora of central and western China that any one suspected its richness in these plants. Now forty-eight or fifty Chinese species and well marked varieties are recognized. Of those with deciduous leaves twenty-four are now well established in the Arboretum. Among them are some of the handsomest shrubs in cultivation, and for this climate at least some of the species are perhaps the most valuable shrubs introduced by Wilson. For the embellishment of northern gardens the introduction and successful cultivation of the Chinese Cotoneasters rank in importance with the improvements made in Europe in recent years in the garden lilacs, with the forms of hybrid Philadelphus made by Lemoine, and with the collection of American Hawthorns discovered and raised in the last sixteen years through the activities of the Arboretum. Some of the Chinese Cotoneasters are low shrubs only a few inches high and admirably suited for the decoration of rock gardens; others are large broad bushes eight or ten feet high; and it is not possible to say which of these plants is the best for some of them are better suited for one purpose and some for another. On some species the leaves are small, thick, dark green and very lustrous; on others they are thin and of different shades of green, and of different sizes. On some of the species with thick and lustrous leaves the foliage does not fall until the beginning or

middle of winter; that of the larger-leaved species falls late in the autumn, on some species assuming in the fall brilliant shades of orange and scarlet. On some species the flowers are bright red, and white on others, and the lustrous fruit which varies greatly in size is black on some of these plants and red on others. As flowering plants the most beautiful in the Arboretum are *C. hupehensis*, *C. racemiflora*, var. *soongarica*, and *C. multiflora*, var. *calocarpa*. These three plants have flowers comparatively large for the genus, about half of an inch in diameter, and bright red shining fruits. The first is a broad, tall and shapely shrub with bright green leaves which will be covered in a few days with flowers which make the plant as conspicuous as any Spiraea. These are followed by small, scarlet fruits which are a good deal hidden by the leaves. *C. racemiflora*, var. *soongarica*, is also a large and vigorous shrub; the flowers are a little larger than those of *C. hupehensis*, the leaves are dull blue-green in color, and the fruit is larger and more showy than that of the last species. *C. multiflora*, var. *calocarpa*, is flowering for the first time in the Arboretum. It is a shrub with slender, gracefully arching stems and blue-green leaves. The arching of the stems makes the flowers, which are borne in erect clusters on short lateral branches, conspicuous and there is now in the Arboretum no shrub in flower more graceful in habit or more charming in the arrangement of its flowers. The fruit of this species, judging by specimens collected in China, is abundantly produced: it is scarlet and about a quarter of an inch in diameter. Of the large-growing species with thick lustrous leaves attention is called to *C. divaricata* with red fruit and *C. nitens* with black fruit. These species have small, globose red flowers which are now open and are large, fast-growing, hardy shrubs valuable through the summer and autumn on account of their beautiful foliage. None of the species are perhaps so attractive in the autumn as *C. foveolata*; this is one of the most vigorous

of all the species with larger leaves which late in the season turn brilliant orange and scarlet. The flowers of this plant are red and the fruit is black. The best of the dwarf species in this climate is *C. horizontalis*. This is now the most generally known of the Chinese Cotoneasters, as it was first raised in France forty years ago and has been growing in the Arboretum for more than a quarter of a century. When growing naturally it is a plant not more than two feet high, with wide-spreading branches; it has small, dark green, shining leaves, minute red flowers and small bright red fruit. Here the leaves fall in early winter, but in regions of milder climate they remain on the branches until a new crop appears in the spring. This is an excellent plant for a large rock garden, and in Europe it is often trained to cover low walls, for which purpose it is well suited, although the branches do not naturally attach themselves to stone or brick. *C. horizontalis*, var. *perpusilla* is a dwarf form with rather smaller leaves and is equally useful for the rock garden. This variety, Mr. Wilson tells us, is the common Cotoneaster of the moorlands of western Hupeh. *C. adpressa*, which is the dwarfest of these plants, is distinguished from *C. horizontalis* by its thinner and less lustrous leaves, larger fruit which ripens several weeks earlier, and by its creeping and often rooting stems which form a dense carpet closely appressed to the ground. There are few shrubs better suited for the rock garden.

Berberis verruculosa.

An evergreen Barberry discovered by Wilson in western Szechuan, is flowering freely for the first time in the Arboretum. It is a small shrub with slender, arching stems, thickly covered with dark brown excrescences, small oval leaves dark green and very lustrous on the upper surface and pale below, and small golden yellow flowers which are solitary or produced in few-flowered clusters. The berries are black, oblong or bottle-shaped and covered with a glaucous bloom. On its native mountains this barberry is said

sometimes to grow three feet tall, but the plants in the Arboretum are only a few inches high. These plants have now been growing for several years on the exposed southern slope of Bussey Hill where they have never been injured. *Berberis verruculosa* appears to be the hardiest and for this climate it is probably the most valuable of the Chinese evergreen species. The small size and compact habit make it a good subject for the rock garden.

Aesculus discolor.

It is fortunate that the scarlet-flowered variety (var. *mollis*) of this Buckeye is hardy here, for the flowers are not surpassed in brilliancy by the flowers of any other horsechestnut. On the typical *Aesculus discolor* the flowers have a red calyx and yellow petals generally more or less flushed with rose. This is a much less common plant than the variety *mollis* on which both the calyx and the corolla are bright red. This is a very common plant in Georgia and Alabama and ranges west to southeastern Missouri and to eastern Texas. It is the only red-flowered Buckeye which has been found west of the Mississippi river, and it sometimes reaches the size and assumes the habit of a small tree. On the Edwards Plateau in western Texas there is a yellow-flowered form (var. *flavescens*) which, because it has yellow flowers, was long mistaken by botanists for the Appalachian tree Buckeye, *Aesculus octandra*. *Aesculus discolor* and its varieties can be distinguished from the other American species by the soft covering of pale down on the lower surface of the leaflets, and from all species of the genus except *Aesculus californica* by the pale orange-brown color of the seeds. *Aesculus discolor*, var. *mollis* is just coming into flower.

Aesculus georgiana

Which is a native of central Georgia, is covered with its compact clusters of yellow and rose-colored flowers. Perfectly able apparently to support the New England climate, this Buckeye is one of the handsomest and most interesting southern shrubs which

the Arboretum has made known and introduced into gardens.

Aesculus Briotii

This French form of the so-called red-flowered hybrid horsechestnut (*Aesculus carnea*) is in flower in the collection. It is the most brilliantly colored of all the forms of *Aesculus carnea*, and few trees hardy in this climate bear such showy flowers. It begins to flower when not more than ten feet high; it is perfectly hardy, and it should be seen more generally in American gardens.—*Arnold Arboretum Bulletin*.

BIG HAIL STORM AT ST. LOUIS.

Hail, wind and a heavy downpour of rain has again visited the St. Louis and vicinity florists causing a loss which will probably total 150,000 feet of glass. This was the second destructive storm within a month. The first one confined itself to the south end of St. Louis but this one took in the county where many of our greenhouse men are located. Some had already repaired the damage done a few days ago and again it hit them hard. Among the heaviest losers this time were H. J. Weber & Sons, Geo. B. Windler, F. J. Fillmore, Wm. Schray & Son, Meuer Bros., John Held, William Kruse, John Walther, Ben Albers, John G. Knoll, Bourdet Floral Co. and the Missouri Botanical Garden. John Held, Meuer Bros and Will Kruse were among those who had reglazed after the recent loss. The great damage was in Kirkwood and Webster where florists are thicker than bees in a hive. W. A. Rowe's loss was the greatest as he got the full force of the storm, especially at the new place, and he estimates his damage at \$5,000. A. S. Cerney, O. C. May, Oakland Floral Co., W. J. Pilcher, Hugo & Rudolph Gross, Frank Vennemann, Hootman Bros., Wm. Winter, F. W. Ude, A. F. Kopp, W. J. Edwards, John R. Steinecke, Chas. Meier, Phil J. Goebel, Jr., and Deutchmann Bros. also suffered greatly. The Connors Floral Co. and Joe Hauser at Webster Grove, had also a heavy loss. All glass facing the west had no chance to escape breakage. Another great loss was to gladioli in the field. Over half were broken off and bent down by the wind. One of the county florists who made the rounds after the storm estimated the loss in the county to reach \$20,000 to florists alone. Many market gardeners along Graviion Road, also the cemeteries, who all have one or more greenhouses, report heavy loss. The daily papers said after the storm that the total loss sustained would reach over the \$100,000 mark.

VISITORS' REGISTER.

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New York—Miss Helen Cassity, private secretary for Postmaster W. F. Kasting, Buffalo, N. Y.; Thos. Tracey and Jos. Tracey, Albany, N. Y.; Arthur Holland, representing R. & J. Farquhar & Co., Boston; E. H. Wilson, Arnold Arboretum, Boston.

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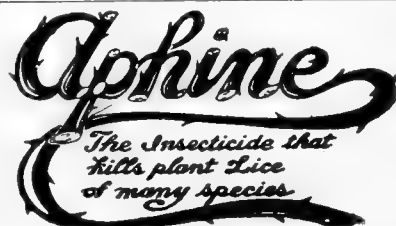
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1,183,127. Weeder. Mark A. Sheldon, Detroit, Mich.

1,183,454. Device for Wrapping Potted Plants. Harry Hayashi, Elmhurst, California.

Beverly, Mass.—Owing to the high cost of living, the gardeners along the North Shore, who are paid by the month, have asked for an increase of \$5, which would make the wage scale \$55 and \$60 a month for gardeners employed on routine work. There is a scarcity of labor on the shore, owing to the fact that many Italians who were employed on estates returned to Italy to enter the war some months ago, and a number of them have been killed at the front, according to letters received by friends in this country. In order to get men at some of the estates, \$2.75 a day has been offered.

**GREENHOUSES BUILDING OR CON-
TEMPLATED.**

Webster, Ia.—E. D. Curtis, four houses.

Blair, Neb.—Blair Floral Co., house 27 x 120.

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Scranton, Pa.—Cleland Greenhouses, addition.

Freeport, Ill.—John Bauscher, rebuilding.

Sioux City, Ia.—Rennison Floral Co., additions.

Franklin, Mass.—W. H. T. Bock, house 20 x 100.

West Grove, Pa.—C. Forrest McNeil, rebuilding.

Mankato, Minn.—A. J. Kramer two houses, each 20 x 100.

Carthage, Mo.—Stephen Hyde, vegetable house 84 x 500.

Middlebury, Vt.—Wm. L. Ford, North street, addition.

Arlington Heights, Ill.—Goerger Bros., two Foley houses.

Fremont, Neb.—Greene's Greenhouses, rose house 32 x 80.

Howell, Mich.—Henry Wilkenhaus, Byron Road, range of houses.

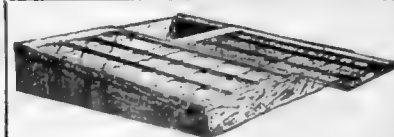
Crystal Lake, Ill.—Frank Schramm, two Foley houses each 40 x 225.

Arlington Heights, Ill.—Elmer Sigwalt, two Foley houses each 40 x 200.

Eatontown, N. J.—Dr. David M. P. Magee, Broad street, one house in the fall.

Chicago, Ill.—L. C. Busse, Mt. Prospect, house 40 x 200, service building, 40 x 60.

Clayton, Mo.—Sanders Nursery Co., carnation house 35 x 150, Foley construction.

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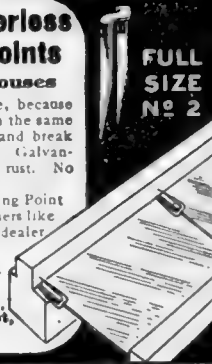
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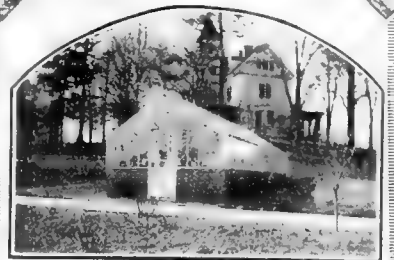
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as a show house.

Herein Lies a Goodly Suggestion For Florists

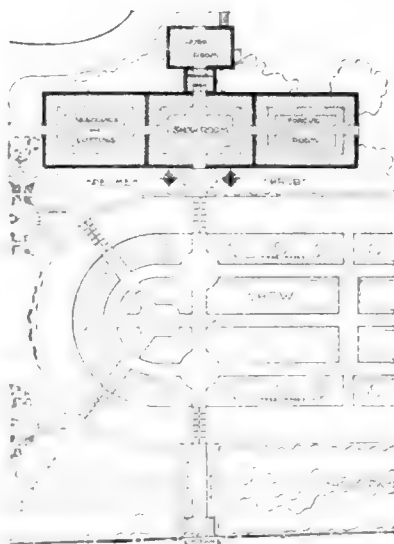
RECENTLY we furnished a greenhouse for the Forest Hills Gardens, South Richmond, Va. In connection with the photograph they were so courteous as to send us, a letter was enclosed which is so full of interest that we are going to give it here. Perhaps you can to advantage apply its main idea to your business.

This is what it says:

"You will note that the greenhouse is small, but it is the beginning of something larger, and I do want to add a word about our intent in establishing here.

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Part of the Extensive Landscape Plan.

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Vol. XXIII
No. 25
JUNE 17
1916

HORTICULTURE



William F. Kasting

Treasurer Society of American Florists
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Postmaster, Buffalo, N. Y.

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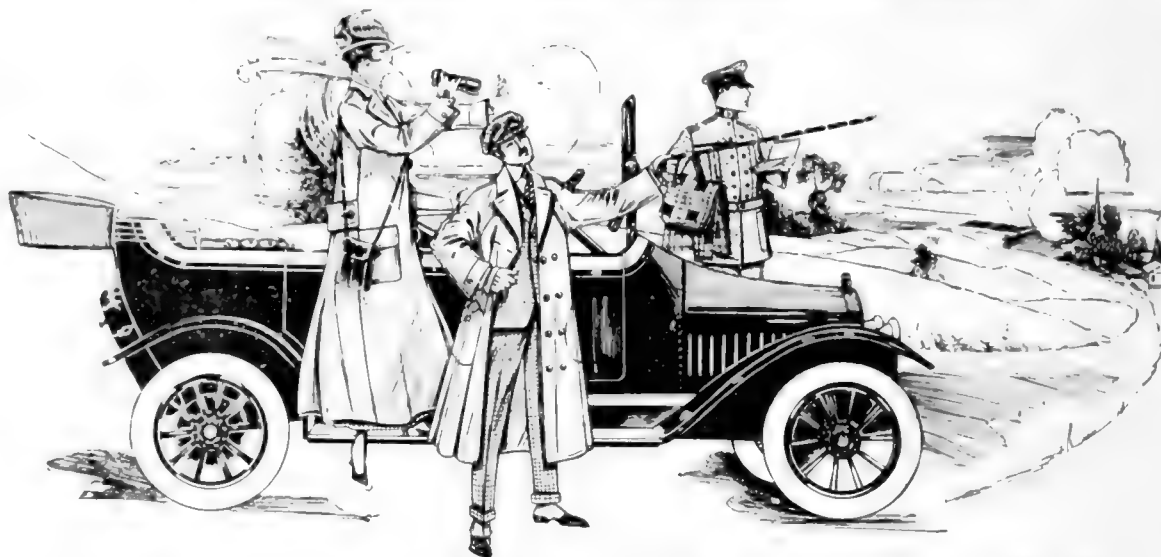
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CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—*Pope*.

Asparagus plumosus

Now is the time for renewing beds and to give those that are to be carried over a top-dressing of cow manure and soil with a sprinkling of bone meal. When making new beds give plenty of headroom—at least 12 feet. The beds or benches should be prepared as soon as possible. Above all things see that they have a generous soil to grow in—say two parts fibrous loam and one part manure. A layer of eight or nine inches of this compost is none too much for asparagus. The plants should be set 10 to 12 inches apart and 16 to 18 inches between the rows. Thrifty plants, out of 4-inch pots, are the right sort to use. Syringe frequently and see they are kept moist around the roots.

Decorative Plants

A little attention to spacing and sorting into different grades and sizes at frequent intervals will be time well spent. See that spading is not too dense—just enough to cause a hazy light through the plants. Abundant ventilation should therefore be in order. Plants that have become excessively rootbound should now be repotted. Infested plants should be given a thorough cleaning, and sponging, even if not just needed, will be of great benefit. Plants of this class yet on parade in overcrowded show house or narrow quarters should be spread apart, while room in other houses is now unoccupied.

Gladioli

Plantings are made once a fortnight until the middle of July in order to insure a constant succession of flowers. The earliest outdoor planting should now be well above ground and have had one cultivation. The bulbs are set at an average depth of six inches. This keeps the stems more rigid in rain and wind storms. In dry weather give weekly waterings and it is well to plant a

Next week—Adiantums; Violets; Cinerarias; Orchids; Gardenias; Pelargoniums.

batch where the water is handy which can be forced in ahead of the others. Make use of a deeply cultivated soil. You can plant in double rows about 6 inches apart and place the stakes between them.

Rambler Roses

Copious watering and daily heavy syringings must be given the rambler roses. We often get our hottest weather up to the middle of July, and if the tender and unripened shoots suffer for water mildew will set in, which much weakens the growth and the strength of the eyes which will now be forming and from these will come the trusses of blooms next spring. Ramblers grown in pots under glass during summer, by having the pots plunged in a bench where there is some soil will retain the moisture better and by the end of August will have made all the growth desirable and can then be stood outdoors to ripen their wood. After this period they will not want so much water.

Sowing Perennials

Seed sown up to the middle of July will make nice strong plants by the fall. Now that bedding plants are all planted out there will be plenty of room in the frames. Give the soil a coating of manure and dig it over well, breaking all the lumps and raking fine. Draw shallow rows up and down the frame about six inches apart and sow the seed and press the surface over moderately firm. Never let them dry out; evaporation is great at this time. After watering keep them shaded until they start to germinate. Keep them well cultivated and when the seedlings have progressed so they can be handled, transplant to other quarters.

Shading Ferns and Palms

Now is the time to watch ferns and palms in the way of shading. Just give enough of shade to make them hold their color and keep them from burning.

Stem Rot in Paeonies

Editor HORTICULTURE.

Dear Sir.—I would like to know if some of your kind readers could tell me what is the cause of the stem rot of paeonies. The stalks rot at the surface of the soil. Also what is a cure of the same?

Respectfully yours,

E. J. B.

The stem rot in paeonies is caused by a fungus. It is distributed by the wind. It causes the stem or bud, or leaves sometimes to turn a yellow brown and decay. No one knows the way to combat it, as yet. I cut the stem off just below the surface of the ground and put it

where it will do no further harm. Cut the buds off if affected, and destroy them also. I have had plants so affected be clear of it the next year. But it is said it will live over winter on old affected stalks. It is best to burn up all affected parts if one can.

E. J. Shaylor

Auburndale, Mass.

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Horticulture

Publicity among the kind of readers reached
by this paper is THE SORT OF PUBLI-
CITY THAT PAYS.

HORTICULTURE

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The power of "pull together"

The neat sum of \$15,707.09 is to be divided equally between the New York Florists' Club and the Horticultural Society of New York as their profits on the recent successful flower show in the Grand Central Palace. But a few years ago the boldest optimist would not have presumed to predict such a thing as a possibility. Such are the results of zealous co-operation and well-directed effort on the part of the two factors which are indispensable for the complete success of such an enterprise anywhere. It can safely be said that neither one of the two organizations which participated in this great undertaking and its happy out-

come could possibly have done it alone as it was done and the gentlemen of New York and vicinity whose spirit of conciliation and harmony and whose kind work so unselfishly performed were so largely responsible for this brilliant achievement are well entitled to congratulation and the gratitude of all friends of horticultural prestige. Promoted in the same spirit of hearty concord there is no reason why the success of 1916 may not be repeated or even excelled in each coming year.

Rock gardening

It is "in the air" that rock-gardening is soon to play an important part in the art of garden making in this country. One difficulty that is sure to confront and disconcert any one trying to do rock-gardening here on the lines which succeed so well in England and some other European countries is that much of the most highly prized alpine material in which the gardener abroad is privileged to revel is really out of the question with us. Yet there is no insurmountable reason why this most fascinating branch of gardening may not be indulged in here and with charming results. We shall find—as we have been finding out in recent years in regard to our shrubbery planting—that there is an abundance of splendid native material which can be brought into effective use and, in association with such exotics as are found tractable, will amply fill the requirements of the most ambitious and exacting planter. There can be no doubt of the growing appreciation of rock-gardens and the interesting classes of plants which find their appropriate setting amid such conditions and surroundings and the nurseryman who will prepare intelligently to meet and supply the special demand that is sure to come will find that he has made no mistake.

Two societies

Practically ever since the florists broke away from the original allied association of nurserymen and florists, thirty-two years ago, there has been a constantly widening divergence in methods and policies and in the avowed purposes and ideals which have shaped the course of the national bodies representing these two interests. While the Association of Nurserymen has been invariably conducted as an exclusively business organization, the S. A. F. has been pursuing a more altruistic course, in which the immediate well-being of the strictly commercial element is not always dominant. In short, the nurserymen have had, for a definite object in maintaining a national organization, the protection and fostering of their business interests, while the S. A. F. and O. H. has chosen to direct its energies in a considerable degree for the promotion of horticultural advancement in a broad sense. During these years the S. A. F. has forged far ahead in numerical and financial strength as compared with the parent organization which, at the time of the separation, came under the undivided control of the nursery people. A perusal of the program for the nurserymen's convention to be held this month in Milwaukee shows a vast amount of preparation for a very busy time and will be interesting to compare it with the one which the S. A. F. will put out shortly for the coming meeting at Houston, Texas. Some of the critics of the S. A. F., who have been persistently endeavoring to relegate that body into the category of strictly commercial organizations might find in the comparison subject for a little second thought. As is generally known the nurserymen are now trying out a new system of membership from which much financial strength and influence is expected. HORTICULTURE extends its very best wishes for an unequivocal success.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur C. Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Do Not Neglect the Young Plants

With the rush of planting, repairing, building and what not, it is always best to take time to look after the young stock. It is from this that the money will come in for the coming season and, more than that, it will have to furnish wood for plants in the future. It should therefore receive all the care possible to insure strong, healthy vigorous plants. To begin with it is best to have at least twenty-five extra plants for every hundred in two-and-a-quarter in. pots. When these are shifted the plants should be carefully selected and all culls thrown out, thus reducing the number of extras to about ten for every hundred. When the plants are shifted again, the culls or all unpromising plants should be thrown out again, bringing the number of extras to about five. Of course the cuttings must be selected when potting the first time so that the plants will be good nearly all the way through. Then when planting time comes the best plants can be picked out and the remaining poor ones thrown away. With this system there will be plenty of nice plants to start with if they are kept going all the time, and that is why they should not be neglected now. The plants grow very fast now if given a chance, and all that are not to be planted for three weeks or more and are well rooted, had better be put into larger pots unless they are already in the fours, in which case they should be spread a least bit and top dressed with fine bonemeal. In spreading the plants it will be as well not to give them too much room as the pots would dry out too quickly, even though they are sunk about half into the ashes on the bench. With Beauties, the tallest should be staked and tied to keep them from laying all over. Keep free from weeds as these are great robbers of plant food, sun and air. To clean the plants properly, it is best to go over them every so often and pick off all yellow leaves, watching out for spot, remove all weeds and then set the plants on the bench again, being careful to set the taller in the rear or the north side of the bench, and the smaller and weaker on the south side which will give them a better chance to grow, not being shaded by the tall ones as they would be if the plants were all mixed. While cleaning it is well to note any trace of spider or fly, or any other disease that may be about starting in.

Keep the Fires Going

We said the same thing a while ago, and the way the weather has been lately we need not be afraid to repeat it. The nights are very cool and the wet rainy days real chilly, which means mildew unless heat is turned on. A pipe of steam even at low pressure will be of great benefit to the roses, carrying a little air at the same time, which will give the plants fresh warm air to breathe. Sulphur will have to be used quite freely on the

pipes as with low pressure they will not be very hot and the sulphur will evaporate very slowly. If a trace of mildew appears here and there a little sulphur mixed with lime and dusted on the plants will help to keep it from spreading. Keep all doors closed all the time and see that everybody does the same. Often a dose of mildew may be traced to an open door, where a few plants got it and it spread all over from them. If the plants have been well cared for, there will be plenty of roses to cut for quite a while yet, and if these can be kept free from mildew they will bring a good price compared to the returns for the mildewed stock. Keep the fires going and keep mildew out.

Spraying Roses

Mr. Arthur C. Ruzicka:

Dear Sir.—From time to time you have recommended for leaf spot, black spot, etc., a spray of ammoniacal copper carbonate. Will you kindly tell how to prepare this for spraying outdoor roses and how often to apply. Will appreciate very much your help.

Yours truly,

A. C.

Answer.—To mix this preparation in small quantities take two ounces of copper carbonate and put same into earthen pot, adding enough ammonia to dissolve the copper. When thoroughly dissolving the copper, add the resulting mixture to two gallons of water, mix well, and then apply at once, as the mixture loses strength very fast if left exposed to the air. Unlike applying nicotine, it is best to apply this on a clear day when the ventilators are open at least a little. This gives the ammonia fumes a chance to escape without doing any damage to the plants and flowers. For outside work the mixture can be made a little stronger, using about five pounds of copper carbonate to fifty gallons of water, with enough ammonia to dissolve the copper. It should be applied late in the afternoon, and only to plants that are plenty wet enough at the root, as it will surely burn all that are dry, so that if there has been no rain for a while it will be best to water the plants well in the morning before spraying. The spraying can be done with an ordinary compressed air sprayer, known to me as Auto-Spray, and if you have to buy one to do the work get one with a brass tank. They cost more but last ever so much longer. Where only a few plants are grown they can be sprayed with a small hand sprayer, which is very inexpensive. The spray should be applied as soon as a trace of the spot is found and after as often as is necessary, say once a week under ordinary conditions and oftener if heavy rains follow the spraying. If you will require a great deal of the mixture it may be better to buy it ready mixed as it is not very pleasant work to make it. The spray is no cure-all by any means, but it will help to keep the spot from spreading and by giving careful culture the plants can be grown out of it.

Obituary

William F. Kasting.

Just at time for closing our forms today, Thursday, June 15, 1916, a telegram reaches us briefly conveying the sad news of the sudden passing away at St. Louis this morning of William F. Kasting, beloved treasurer of the Society of American Florists. We are inexpressively shocked and grieved as will be thousands of others who knew and loved "Billy" Kasting. Particulars of his sudden death have not yet reached us.

In the year 1884, when 14 years of age, Wm. F. Kasting came to this country a lonely German emigrant boy. He drifted into the greenhouse business in Erie, Pa., and in 1893 became a salesman for D. B. Long, in the wholesale flower business in Buffalo. In 1896 he bought the business from Mr. Long and since that time has conducted a profitable and ever-growing wholesale flower and supply business, the largest in that section of the country. In connection with this he became proprietor of the Erie Floral Co., situated at Erie Pa., with 50,000 feet of glass.

At the S. A. F. Convention in Washington, D. C., in August, 1905, Mr. Kasting was elected president of the Society, he having served previously as vice-president in 1901, when the Convention took place in Buffalo. At Cincinnati in 1909 he was elected treasurer and has served in that capacity ever since, besides holding many other positions of activity and influence in the Society's councils. Two years ago Mr. Kasting was appointed postmaster of the city of Buffalo by President Wilson. Previously he had held many positions of prominence in local floral, social, political and business circles. He was financial secretary, treasurer and afterwards president of the Buffalo Florists' Club; vice-president of the American Carnation Society; park commissioner for the city of Buffalo; treasurer of the Orpheus Singing Society; president of the German Hospital in Buffalo; member of the Chamber of Commerce. Mrs. Kasting died about five years ago.

In the passing away of William F. Kasting the Society of American Florists sustains a grievous loss. He was admirably equipped for service as treasurer. He was truly "the watchdog of the treasury," and the Society's financial interests were safeguarded with rare sagacity and fidelity. Earnest, conscientious, outspoken as an opponent, loyal as a friend, generous, tender-hearted—where shall we ever find one who can fill his place.

G. Supper.

Gottlieb Supper, for many years an employee of George C. Shaffer, Washington, D. C., died on June 1, aged 35 years. He is survived by his widow, who is also an employee at Shaffer's. His father, John Supper, is in the florist business at Lakewood, N. J.

W. L. McKay.

Wm. L. McKay, of the Van Dusen Nursery Company, Geneva, N. Y., died suddenly on May 25, aged 61 years.

CLUBS AND SOCIETIES

Meetings Next Week

Monday, June 19.

Detroit Florists' Club, Remb Floral Hall, Detroit, Mich.
Houston Florists' Club, Chamber of Commerce Rooms, Houston, Tex.
New Jersey Horticultural Society, Orange, N. J.

Tuesday, June 20.

Gardeners' and Florists' Club of Boston, Horticultural Hall, Boston, Mass.
Gardeners' and Florists' Club of Ontario, St. George's Hall, Toronto, Can.
Minnesota State Florists' Association, Minneapolis, Minn.
Pennsylvania Horticultural Society, Horticultural Hall, Philadelphia, Pa.

Wednesday, June 21.

Rhode Island Horticultural Society, Public Library, Providence, R. I.
People's Park Cottage Gardeners' Association, Paterson, N. J.
Tarrytown Horticultural Society, Tarrytown, N. Y.

Friday, June 23.

Connecticut Horticultural Society, County Bldg., Hartford, Conn.
Monmouth County Horticultural Society, Red Bank, N. J.
Pasadena Horticultural Society, Pasadena, Calif.

Saturday, June 24.

Dobbs Ferry Gardeners' Association, Dobbs Ferry, N. Y.

COMING EXHIBITIONS.

June 22, Worcester, Mass.—Rose and Strawberry Exhibition, Worcester Horticultural Society.

June 24-25, Boston.—Rose and Strawberry Exhibition, Massachusetts Horticultural Society, Horticultural Hall.

June 27-28, Hartford, Conn.—Summer Show of Connecticut Horticultural Society.

June 28-29, Newport, R. I.—Newport Garden Association and Newport Horticultural Society, on the grounds of the Garden Association.

July 14-15, Bar Harbor, Me.—Annual Show of American Sweet Pea Society.

July 20, Worcester, Mass.—Sweet Pea Exhibition, Worcester Horticultural Society.

August 3, Oyster Bay, L. I., N. Y.—Dahlia Show, Oyster Bay Horticultural Society.

August 11-12-13, Boston.—American Gladiolus Society, Horticultural Hall.

August 24, Worcester, Mass.—Gladiolus Exhibition.

Sept. 2-9, Cleveland, Ohio.—Industrial Exhibition and Fair.

Syracuse, N. Y., Sept. 11-16.—New York State Fair.

Sept. 12-13, Providence, R. I.—Rhode Island Horticultural Society, Narragansett Hotel.

MASSACHUSETTS HORTICULTURAL SOCIETY.

Exhibition of Peonies.

The annual peony show of the Massachusetts Horticultural Society will be held at Horticultural Hall, Saturday and Sunday, June 17 and 18. In addition to peonies there will be collections of irises and other seasonable flowers.

This is one of the most brilliant exhibitions of the year and a fine display will be made. The exhibition is free to the public and will be open Saturday from 12 to 6 and on Sunday from 1 to 6 o'clock.

WM. P. RICH, Sec'y.

NEW YORK FLORISTS' CLUB.

The New York Florists' Club held its last meeting for the season of 1915-16 on Monday evening, June 12, about 70 members being present. The preliminary report on the recent Flower Show in the Grand Central Palace as presented by Secretary John Young showed gross receipts of \$41,727.76. Expenses \$19,305.57. Balance \$31,422.19, one-half of which goes to the International Exposition Company who assumed rent, and one-half to the florists' interests who assumed the premium list, viz. \$15,711.09. The premiums paid amounted to about \$9,300. To this balance must be added the special cash prizes raised by the two societies, which amounted to about \$4,551.50 in cash, and trophies and medals about \$1,000. The show was a big success from all angles. The club raised cash prizes amounting to \$1,235 and trophies \$815. The Horticultural Society of New York raised cash prizes, \$3,316.50; trophies \$150.

Charles B. Weathered, chairman of the special committee appointed by the club on flower show matters for 1917, reported progress. Secretary Young presented a report for the Houston Convention transportation committee giving details as to the different routes and rates. The round trip, one way by water to New Orleans and returning all rail, being recommended by the committee as most advisable, will cost \$83. This includes berth and meals on steamer to New Orleans and first-class transportation beyond. The committee reported they will send out literature later covering the different items of interest and information in regard to the trip.

The committee appointed to obtain information as to suitable buildings in case the invitation is accepted to hold the next S. A. F. Convention in New York reported progress. Secretary Young presented an interesting letter from Dr. N. A. Britton, of the Botanical Gardens at Bronx Park, which may result in the Convention Garden being located there, which would be a most favorable location. It was suggested by H. A. Bunyard that the International Garden Club would also be pleased to have the Convention Garden at City Island where the recent outdoor exhibition was held. So, much to the surprise of many, a Convention Garden is assured in New York if the Convention should be held there.

A. Herrington gave a very interesting talk on the International Garden Club—why it was organized, its aims and ambitions. He stated that the Garden Club had good financial backing and had already received many substantial subscriptions. The committees appointed since last meeting are as follows: Transportation to Houston, Texas—Charles H. Totty, John Young, W. C. Rickards. On building site for Convention Garden, etc.—Chas. H. Totty, John Young, W. C. Rickards. Flower Show committee

HENRY HAAS

PATRICK WELCH

FRANK J. REYNOLDS

Reorganization of the

WELCH BROS. CO.

At a special meeting of the Board of Directors of Welch Bros. Co., held at 226 Devonshire Street, Boston, June 1, 1916, Mr. Henry Haas was elected Manager and Frank J. Reynolds, Asst. Manager. Patrick Welch retains the offices of President and Treasurer.

As President of the Company I wish to express my appreciation of the continued patronage with which you have favored us, and I sincerely hope that we shall always be able to retain your business, as we feel confident that the merit of our goods and the excellency of our service in both the Cut Flower and Supply Department are of the best.

PATRICK WELCH, Treasurer.

226 Devonshire St., Boston, Mass.

—C. B. Weathered, chairman; Frank H. Traendly, Charles H. Totty, William H. Duckham, Max Schling, L. J. Reuter, Henry Weston, Wallace R. Pierson, George E. M. Stumpp and John Young.

A VISIT TO CROMWELL, CONN.

On Wednesday, June 21st, the members of the National Association of Gardeners and the American Association of Park Superintendents will hold a Field Day at Cromwell Gardens, Cromwell, Conn., as the guests of A. N. Pierson, Inc. A large delegation is looked for, both from the vicinity of New York City and Boston, both of which points are within a day's trip of Cromwell. Those going by way of New York will leave the Grand Central Station on the Green Mountain Express at 8 o'clock on Wednesday morning, the 21st, securing tickets for Berlin, Conn., from which city Cromwell is reached by trolley. Connection can be made at Greenwich, Conn., at 8.50 A. M.; Stamford, 9.02 A. M.; Bridgeport, 9.38 A. M. Those going by way of Boston will leave South Station at 7.55 A. M. via Hartford, from which city Cromwell is also reached by trolley.

ST. LOUIS FLORIST CLUB.

This club celebrated its 30th anniversary with an out-door meeting at W. J. Pilcher's in Kirkwood on June 8th. The members started at 1.30 P. M. from the wholesale district in automobiles decorated with American flags and every member wore a red carnation. The procession was lead by W. C. Smith and at the meeting place were met by Mr. Pilcher and

his force and made comfortable. The tour through the splendid rose houses was most interesting. The meeting was called to order by President Bourdet in the big boiler shed, nearly 75 members in attendance. The trustees reported the club's annual picnic would be held on July 19 or 20 at Romona Park. Spring Flower Show committee had an excellent report. The committee on organizing the State Florists' Association gave an account of how the new organization had been completed. Ed G. Tedirc, Henry Ochs, H. M. Studdard, Emmett McDonald and Alex Volkman applied for membership. The committee on selecting an official flower for St. Louis for the Convention Bureau, named Coreopsis.

President Bourdet invited the members to hold their next meeting at his place, which was accepted with thanks. After adjournment Mr. Pilcher took the members in hand and entertained them royally.

PITTSBURGH FLORISTS' AND GARDENERS' CLUB.

The Pittsburgh Florists' and Gardeners' Club held a large and interesting meeting in the Dutch Room of the Fort Pitt Hotel on the evening of June 6th. The question of banquet sometime this fall to celebrate the 25th anniversary of the founding of the club was brought up, and it was decided that one should be held. The matter of a flower show at the same time was also under consideration. It seemed to be the sense of the club that it would be well to hold a Chrysanthemum Show in connection with the banquet, but that there should be no money prizes.

Herman Rapp, Leetsdale, Pa.,

showed Gloxinias for which he was awarded a cultural certificate. A collection of wild flowers was displayed, which was named by Dr. E. O. Jennings of Carnegie Museum. Then followed the feature of the evening, an "Illustrated Talk on the Flora of Washington State" by Dr. Jennings. Beginning near the eastern end of the State he took us across to the Pacific Coast, passing over a choice assortment of deserts, mountain peaks and glaciers, great forests and prairies. The wild flowers were in profusion, the pictures fine and the talk interesting, and the club greatly enjoyed the entertainment and instruction afforded.

H. P. JOSLIN, Secretary.

CLUB AND SOCIETY NOTES.

All guarantors for the National Flower Show held in Philadelphia this spring have had their money returned to them in full with a ten per cent. dividend.

The New Haven County (Ct.) Horticultural Society had a free peony show on June 8, but very few peonies were in evidence. There was an excellent showing of German irises, however.

Miss Van Name showed forty vases of iris. She boasts of 600 varieties in her collection, some very rare. Mrs. Edward H. Jenkins also contributed forty vases. Many of these were seedlings and caused a good deal of talk among connoisseurs. The Park Department of New Haven and Jno. W. Anderson of the Yale Botanical Gardens also had some very interesting specimens. J. H. Slocombe, the veteran florist, showed two large groups of oriental poppies that were greatly admired.

AMERICAN ASSOCIATION OF NURSERYMEN

Program of the Fortieth Annual Convention, June 28, 29, 30, 1916, Hotel Wisconsin, Milwaukee, Wis.

Section 1—Wednesday, June 28, 10 A. M.

- Invocation by Rev. C. S. Harrison, York, Neb.
 10.10—Address of Welcome, Mayor of Milwaukee.
 10.35—Response (5 minutes), John Watson, Newark, N. J.
 10.40—President's Address (30 minutes), E. S. Welch, President, Shenandoah, It.
 11.10—Secretary's Report (15 minutes), John Hall, Secretary, Rochester, N. Y.
 11.25—Treasurer's Report—(10 minutes), Peter Youngers, Treasurer, Geneva, Neb.

Section 2—The New Organization.

- 11.35—"A Greater American Association of Nurserymen" (20 minutes), J. R. Mayhew, Waxahachie, Tex.
 11.55—"The Value of Membership in the American Association of Nurserymen"—(10 minutes), Henry Chase, Chase, Ala.
 12.05—"A Practical Business Meeting of Business Nurserymen"—(10 minutes), W. H. Wyman, North Abington, Mass.
 12.15—Discussion—(20 minutes), John Dayton, J. B. Pilkington, E. H. Balco, Theodore J. Smith.
 12.35—Announcement by Entertainment Committee: T. J. Ferguson, of Wauwatosa, Wis., Chairman.
 12.45—Adjournment.

Afternoon, 1.45 P. M. Section 3—Trade Matters.

- Executive Session—(Closed doors, for members only).
 1.45—Report of Legislative Committee—(30 minutes), East: Wm. Pitkin, Rochester, N. Y. West: Peter Youngers, Geneva, Neb.
 2.15—Review of Work of Counsel for A. A. of N. During the Past Year, and Recommendations for the Future" (20 minutes), Curtis Nye Smith, Counsel, Boston, Mass.
 2.35—Discussion—(25 minutes), Led by Wm. Pitkin, Peter Youngers, J. W. Hill, Orlando Harrison, Thos. B. Meehan, F. H. Stannard, H. D. Simpson.
 3.00—Transportation Committee's Report—(15 minutes), Chas. Sizemore, Chairman, Louisiana, Mo.
 3.15—Discussions—(15 minutes), L. A. Breckmans, John Dayton, W. C. Reed, O. Joe Howard.
 3.30—"Who Shall Receive Trade Prices"—(10 minutes), John H. Dayton, Painesville, O.
 3.40—Discussion (20 minutes), T. J. Ferguson, Wm. Pitkin, Guy Bryant, Theodore J. Smith, R. J. Bagby, E. S. Osborne and O. W. Fraser.
 4.00—"A Safe, Non-warranty Clause for Nurserymen" (10 minutes), Luther A. Breck, Lexington, Mass.

Evening.

Important: The State Vice-Presidents meet at 7 P. M. Members from each State are urged to consult together and name their choice for State Vice-President.

- 7.30—Meeting of American Nurserymen's Protective Association, Thomas B. Meehan, Secretary.
 7.30—Meeting of the Wholesale Nurserymen's Travelers' Protective Association.
 8.30—Meeting of American Retail Nurserymen's Protective Association, Guy A. Bryant, Secretary.

Thursday, June 29, 10 A. M. Section 4—Overproduction Problems.

- Executive Session—(Closed doors, for members only).
 10.00—"Statistics"—(10 minutes), John Watson, Newark, N. Y.
 10.10—Discussion—(30 minutes), C. M. Hobbs, Frederick L. Atkins, J. Edward Moon, John P. Rice, E. W. Chittin.
 10.40—"Tariff"—Report of Committee—(10 minutes), Irving Rouse, Chairman, Rochester, N. Y.
 10.50—"Are Higher Duties Desirable?"—Discussion (30 minutes) by George C. Perkins, John H. Dayton, George C. Roeding, Frank Weber, Thomas B. Meehan.

Section 5—Publicity. Open Session.

- 11.20—"Fair Play Nursery Advertising"—(10 minutes), Frank B. White, Managing Director Agricultural Publishers Association, Chicago, Ill.
 11.30—"Cheaper, More Productive Advertising"—(10 minutes), E. H. Favor, Managing Editor, Fruit-Grower, St. Joseph, Mo.
 11.40—"Co-operative Nursery Publicity"—(10 minutes), J. Horace McFarland, Harrisburg, Pa.
 11.50—"Practicable Publicity Plans for the A. A. of N."—(10 minutes), Jefferson Thomas, Jacksonville, Fla.
 12.00—Discussion—(30 minutes), J. R. Mayhew, Henry B. Chase, W. H. Wyman, W. F. Bohlender, Frederick L. Atkins, E. P. Bernardin.
 12.30—Adjournment.

Afternoon 1.30 P. M. Section 6—Miscellaneous—Election Officers.

- 1.30—"A Practical Cost System for Nurserymen"—(20 minutes), Hugo Kuechenmeister, Farm Management Department of the University of Wisconsin.
 1.50—Discussion—(30 minutes), C. A. Krill, Kalamazoo, Mich.; C. C. Mayhew, Sherman, Tex.; Henry T. Moon, Morrisville, Pa.; C. J. Maloy, Rochester, N. Y.; A. F. Meehan, Dresher, Pa.
 2.20—"Proper and Uniform Bunching, Packing and Handling of Nursery Stock"—(10 minutes), Herbert Chase, Delta, Colo.
 2.30—Discussion—(20 minutes), D. S. Lake, W. T. Hood, Richmond, Va.; T. I. Igenfritz, W. J. Maloney.

- 2.30—"A Practical Members' Collection Bureau" Curtis Nye Smith (followed by general discussion).
 2.50—Report of State Vice-Presidents. Adjournment.

Evening 7 P. M.

Annual Dinner of the Wholesale Nurserymen's Travelers' Protective Association.

Friday, June 30, 9.30 A. M. Section 7—Inspection Matters.

- 9.30—Executive Committee Recommendations on Uniform Trade Terms for Members of the American Association of Nurserymen, Henry B. Chase, Members of the Executive Committee, (10 minutes).
 9.40—Discussion—(10 minutes), John H. Dayton, Thos. B. Meehan, J. W. Hill, H. D. Simpson, Milton Moss.
 9.50—"Danger Ahead"—(10 minutes), Prof. J. G. Sanders, Entomologist and Chief Nursery Inspector, University of Wisconsin, Madison, Wis.
 10.00—"White Pine Blister Rust-Quarantine"—(10 minutes), Prof. F. L. Washburn, State Entomologist, St. Anthony Park, Minn.
 10.10—Discussion—(30 minutes), Wm. Pitkin, Thos. B. Meehan, Peter Youngers, Theo. J. Smith, Curtis Nye Smith, Prof. J. G. Sanders, M. R. Cashman, Geo. A. Marshall, Prof. E. Lee Worsham, State Entomologist, Atlanta, Ga.
 10.20—Report of Arbitration Committee, W. C. Reed, Chairman.

Section 8—Miscellaneous.

- 10.50—Report of Nomenclature Committee—(10 minutes), J. Horace McFarland, Chairman, and Harlan P. Kelsey.
 11.00—"Accepted Horticultural Names—Will Arbitrarily Adopted Names Supersede Those in Common Use?"—(10 minutes), Prof. L. H. Bailey, Ithaca, N. Y.
 11.10—Discussion—(20 minutes), Prof. E. R. Lake, John H. Dayton, D. S. Lake, W. W. Hoopes.
 11.30—Report of Committee on Root Gall—(10 minutes), E. A. Smith, Lake City, Minn.
 11.40—Question Box—(20 minutes), Led by J. W. Hill, Des Moines, Ia.
 12.00—Unfinished Business—Resolutions—Adjournment.

Entertainment.

Mr. T. J. Ferguson, Wauwatosa, is in charge, but has not had a free lance because the slogan is "Business First." And yet, on Friday afternoon, an automobile trip over the ideal roads around Milwaukee has been arranged through the courtesy of the Good Roads Association of Milwaukee County and the Merchants' and Manufacturers' Association.

There will be opportunities for visiting some of the mammoth local indus-

Boddington's Gigantic Pansies

BODDINGTON'S "CHALLENGE." This mixture contains all the finest Giant strains—of the leading Pansy Specialists in the world—the Giant self-colors, the Giant striped and margined, and the Giant blotched, etc., all carefully mixed in proportion.

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GIANT MADAME PERRET. Rich wine colors.....	.15	.85	3.00
GIANT LORD BEACONSFIELD. Deep purple violet, top petals light blue.....	.15	.50	1.50
GIANT EMPEROR WILLIAM. Ultramarine blue, purple eye.....	.10	.50	1.50
GIANT GOLDEN QUEEN. Bright yellow; no eye.....	.15	.60	2.00
GIANT GOLDEN YELLOW. Yellow; brown eye.....	.15	.75	2.50
GIANT PRESIDENT MCKINLEY. Golden yellow, large, dark blotch.....	.15	.85	3.00
GIANT WHITE. Violet spot.....	.10	.60	2.00



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tries, which members may select according to their own inclination.

Exhibits.

This department is being handled by Mr. Albert F. Meehan, Dresher, Pa. Intending exhibitors should at once communicate with him.

E. S. Osborne, Rochester, N. Y., hopes to make up a special train for members in New York State and New England, to which through sleepers from Boston will be attached. Write Mr. Osborne.

CLUB AND SOCIETY NOTES.

Owing to the very late season, the June Show of the Rhode Island Horticultural Society will be postponed to Friday, June 23, 1916. Send in entries on the blank provided for the

purpose two days before the show to Ernest K. Thomas, Secretary, Rhode Island State College, Kingston, R. I.

The annual June exhibition of roses, sweet peas, strawberries, hardy flowers, etc. by the Tarrytown Horticultural Society will be held at the Y. M. C. A. building, Tarrytown, N. Y. on Tuesday afternoon and evening, June 20, 1916, from 2 until 10 P. M. Admission free. See the prize schedule for list of special premiums. E. W. Neubrand is secretary.

The regular meeting of the Holyoke and Northampton Gardeners' and Florists' Club was held June 6th at the Botanic Garden of Smith College, Northampton, Mass. The principal business was the adoption of a schedule for the annual Flower Show, to be

held in Northampton, November 1st and 2nd. George Strugnell read a paper on hydrangeas, for the growing of which he has a good reputation. E. J. Canning exhibited a collection of flowering shrubs, including some of the lesser known kinds. In the greenhouses the visitors were chiefly attracted by a display of zonal and regal pelargoniums, Canterbury Bells, Gladiolus Peach Blossom and Clerodendron fallax.
H. E. D.

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One Week's Imports.

Imports at the port of New York of horticultural material, for the week ending June 2, were recorded as follows:

Bulbs—Netherlands, \$38; England, \$212; Bermuda, \$6; Japan, \$3.

Plants—France, \$39; Netherlands, \$405; England, \$4,928; Bermuda, \$150; Guatemala, \$427; Mexico, \$90; Trinidad, \$174; Brazil, \$25; Japan, \$34.

Clover Seed—Norway, \$7,911.

Grass Seed—Netherlands, \$301; Argentine, \$762.

Other Seed—Netherlands, \$1,705; England, \$20,049; Chile, \$1,900; British India, \$3,114; France, \$610; Hong-kong, \$160; Japan, \$284.

Nitrate of Soda—Panama, \$14,266.

Notes.

New York, N. Y.—W. A. Sutherland, formerly with the Leonard Seed Company, Chicago, is now representing S. D. Woodruff & Sons, 82 Dey street, in the eastern states.

Rockford, Ill.—Condon Bros., seed growers, have purchased the McFarland farm, in Guilford township, and a large portion of it will be devoted to seed trials.

The Iowa Seed Dealers Association held their annual meeting at Des Moines, Ia., in the Savary Hotel on Wednesday and Thursday, June 7 and 8. It was a very successful and well attended meeting. Henry Field of Shenandoah is president and J. F. Sinn of Clorinda, secretary.

Theodore Outerbridge writes from Sunnylands, Bermuda, that the weather has been very cool there thus far this season but that rain is needed very badly and plants and bulbs are suffering for it. We should be very glad to share some of the rainfall which we have been getting in New England during the past fortnight.

Our advices from France state that there is a great shortage of labor with correspondingly high wages. Agricultural and horticultural productions, including seed growing, has been very much reduced this spring. Instead of growing seeds, growers prefer to raise potatoes and grains, which with a good deal less expense, command now very high prices.

SWEET PEA HISTORY.

Dear Editor:

Referring to the address of H. M. Earl, on the Development of the Modern Winter Sweet Pea in Horticulture, of May 27th, page 726, I find several mistakes which I want to correct for the sake of history and nomenclature of the Winter-Flowering Sweet Peas. I hope you will correct the following facts which can be very easily proved by any mentioned firms.

Mr. Earl admits in his address, that the Earliest of All and Christmas Pink, of which I was the originator, are practically the same. I agree with him as they are today, but ten years ago or right after the introduction of the Earliest of All it was very similar to my first Winter Sweet Pea the Winter Blanch Ferry. He admits that the Earliest of All was introduced in 1898, which is correct. But Mr. Earl omits entirely how it has happened that two practically the same varieties bear two different names. One must surely be misrepresented and renamed.

My original Christmas Pink was grown by many growers before 1898, also before the introduction of Earliest of All. The first greenhouse of it was grown by Thos. Young Co., in the season 1895-6, and the first flowers so far as I can recollect, were sent to Thorley, New York, at the price of 50 cents per dozen flowers. Later it has been sent to Fleishman's and other New York flower stores. I was in charge of the greenhouses at that time.

In 1897-98 it was grown by many growers and the majority of the flowers were handled by Gunther Bros., commission florists, at that time in 30th street, New York, and by James Purdy. Those firms can show the old books, how much of the Christmas Pink they have handled. Now I ask Mr. Earl—who have named the Earliest of All, if it is the same as Christmas Pink? As I have mentioned before, today those two varieties are most the same, but ten years ago there was a big difference between them. The so-called Earliest of All was a very dwarf grower with a small flower. In 1906 Lester Morse raised the Christmas Pink seed for me, also the Earliest of All for other seedsmen on the same field. Asking him for his opinion about the two varieties, he says: "There is a big difference between the two. Yours is double, is large, is a very strong grower and comes two to three weeks later when planted side by side at the same time." Since that time many thousand growers came to the same conclusion and have returned to my old Christmas Pink.

After I have tried out the Earliest of All, I come to the point that this is the same Sweet Pea as my first bicolor, the Winter Blanche Ferry, which I have originated and grown by Mr. H. Bolte at Allentown, Pa., 1890 and when I was with Koge Bros., West Hoboken, N. J., in 1892-94. The Winter Blanche Ferry was never advertised and was grown only by several growers to whom I gave the seed, and in 1895 I

discarded it in favor of the much better Christmas Pink.

No doubt that all the old growers know the origin of the first Winter Sweet Pea, but it may be very misleading to the younger generation to have them believe that the Earliest of All was the first.

Yours very truly,

ANT. C. ZVOLANEK.

Lompoc, Cal.

THE PEONY CITY.

There was a notable gathering of the Civic League of Omaha, Neb., on the 7th of June. It was peony day and the exhibit of that flower was fine. It is the aim of the league to make Omaha the Peony City. There is a garden of fourteen acres of this flower in full bloom. The writer was sent for to make an address.

Found at Last.

The trouble has been to find a peony for the northern belt of states for Decoration Day. There will be hundreds of blooms on that day and thousands two days after, but after seven years test in Nebraska the Umbellata Rosea has never failed. This is a beautiful fragrant pink. This year May was so cold we thought they would not come to time, but they came in on the home run gloriously, and now there is a great call for this flower.

C. S. HARRISON.

PEONY EXHIBITION.

The American Peony Society in cooperation with The Horticultural Society of New York held a Peony Exhibition in the American Museum of Natural History, New York City, on June 9th to 11th. Our special notes on the exhibits and list of prize winners appears to have miscarried and we are, therefore, obliged to go to press without them this week.

The fourteenth annual meeting of the American Peony Society was held in the lecture room in connection with the exhibition.

A discussion on the naming of new varieties and the desirability of a simplification of the present nomenclature resulted in instructions to the secretary to correspond with raisers abroad setting forth the attitude of the American Society. Lemoine & Son of Nancy, France, were made honorary members as was also Sarah A. Pleas of Colorado, whose varieties Jubilee and Opal in her exhibit were very beautiful. The directors were authorized to hold a meeting next winter and arrange for a spring meeting in 1917 and it was decided to issue two bulletins for the coming year similar to those of 1916. On the question of admitting Garden Clubs to membership no decision was reached. Arrangements have now been completed for the planting of a full collection of peonies at Washington to be known as the American Peony Society collection. Philadelphia was chosen for the next exhibition.

The membership of the society is now 150, 34 new members having been added this year. The cash balance to the credit of the society is over \$1,700.

CATALOGUES RECEIVED.

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Duchess. White, with zone of rosy carmine, yellow eye.	.60	1.00
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Kermesina Splendens. Crimson.	.60	1.00
Rosy Morn. Pink.	.60	1.00

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Alba. White.	.50	
Rosea. Light rose to carmine rose.	.50	

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Hotel Martin building.Pittsburgh, Pa.—W. P. & S. L. Gal-
lagher, 294 Fifth avenue.Washington, D. C.—Mrs. Carrie
Monroe, 649 H street, N. W.Chester, Pa.—Rosery Flower Shop,
removing to 8 West 7th street.Bar Harbor, Me.—John H. Stallford,
Main street, succeeding F. H. Moses.Bridgeport, Ct.—James Horan & Co.,
branch store at Fairfield avenue and
Broad street.**NEWS NOTES.**Phoebe, Va.—Mrs. Carrie Monroe
has sold her store and greenhouse to
R. Hayden Smith.Englewood, N. J.—Alex. Donaldson,
formerly of Elmhurst, L. I., has taken
the range of greenhouses formerly
conducted here by T. W. Lydecker &
Co. on Grand street.

Cincinnati, O.—The following mar-
riages were solemnized last week.
Miss L. Rosalia Gillett, daughter of Mr.
and Mrs. E. G. Gillett, to Wm. F. May-
hall; Miss Hannah M. Baer to Arthur
Becker, of Avondale Floral Co.; Miss
Muriel Murphy, daughter of the late
George Murphy, to Bernard J. Slaughter,
Jr., and Miss Lillian A. Ward to
Neil Forder, the Hyde Park florist.
Mr. and Mrs. Mayhall left for the east
on their bridal tour.

Theodore Cobb, of the D. M. Ferry
Co., Detroit, Mich., who spent several
days in this city last week, was very
active in promoting the proposed
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here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State St.
Albany, N. Y.—The Rosery, 23 Steuben St.
Albany, N. Y.—William C. Gloeckner, 97 State St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont St.
Boston—Zinn the Florist, 4 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th St.
Cleveland, O.—The Smith & Feters Co., 735 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.
Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.
New London, Conn.—Reuter's.
New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—G. E. M. Stump, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
New York—A. T. Bunyard, 413 Madison Ave., at 48th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
Rochester, N. Y.—Salter Bros., 38 Main St., West.
San Francisco—Pellicano, Rossi & Co., 123 Kearny St.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Plerson Co.
Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke, Connecticut Ave. and L St.
Westerly, R. I.—Reuter's.
Worcester, Mass.—H. F. A. Lange.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

Penn The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 Tremont St., BOSTON

REUTER'S Members Florists' Telegraph Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence

ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
TICE INITIALS. We have one store only
THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of

TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

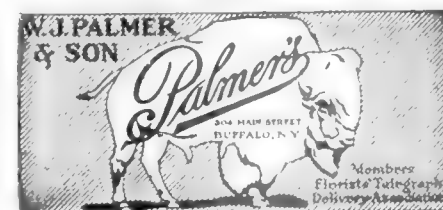
JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES
Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.



J. H. SMALL & SONS

FLORISTS NEW YORK and WASHINGTON

Announce the removal of their New York store to

505 MADISON AVENUE, AT 52d STREET

WASHINGTON, D. C.
15th and H Streets

Floral and Landscape Work

NEW YORK—Waldorf-Astoria
and 505 Madison Ave.

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

Louis H. Winterson has left the seed business to deal in real estate.

S. Y. Bloom, 822 E. 63rd street, and Alta Levy have selected June 18th as their wedding day.

Miss Elsa Schnapp is now with J. Mangel as assistant in the Blackstone, where business is always good.

John Michaelson says that sales at E. C. Amling's ran \$12,000 ahead of last year's in the month of May.

Miss Virginia Poehlmann was graduated from the University School for Girls on the North Shore last week.

The A. F. Amling Co.'s new place at Maywood is having its heating plant installed this week. Four Kroeschell boilers, each of 300 horse power, will do the work.

Miss Josephine Then, daughter of Mr. and Mrs. Anton Then and well known to the trade, is seriously ill at the German hospital. At this writing she is said to be slightly improved.

Miss L. A. Tonner, who brings her stock of peonies each day to their wholesale store says that the rain and wind together have made a hard combination against peonies this year, but they are showing some very fine stock notwithstanding.

During Manager Lautenschlager's trip to Philadelphia, a community order was placed with him for new Kroeschell boilers and two car loads will be on the tracks when this is in print. The order includes two No. 15 boilers, one No. 14, one No. 12 and one No. 24 and their destination is Kennett Square, Pa.

Large shipments of palms, araucarias, oaks and aspidistras have arrived recently for Frank Oechslein, Poehlmann Bros. Co. and Winterson's Seed Store. On account of war conditions and congestion at terminals some have been long on the way. Some of them, however, have reached their destination in splendid condition.

FLOWERS BY TELEGRAPH

SAN FRANCISCO

CALIFORNIA

Pelicano, Rossi & Co.

128 KEARNY ST.

No agreement has been reached as yet terminating the express employees' strike, but the office men were replaced promptly and the regular delivery of flowers to the trains is made daily by the committee and business goes on about as usual. By actual count, the express company's books show the handling of a larger number of orders the past four weeks than in a corresponding time last year.

The Vegetable Growers' Association of America, through the efforts of Fred Lautenschlager, are invited to hold their annual meeting this fall, in Chicago. The Association has never met further west than Grand Rapids, but there are so many engaged in market gardening and so much money invested in that business in and around Chicago that it is a most desirable place for meeting occasionally. Mr. Lautenschlager has got all the seed houses and the building material firms interested and with the entertainment part in his hands, success is assured. The executive board is meeting here June 15th for final arrangements.

NEW YORK.

A joint meeting of the committees of the New York Florists' Club and the Horticultural Society of New York to formulate co-operative plans for next year's spring show, was held on Monday, June 12, at the Hotel Manhattan. No definite result was arrived at and the meeting adjourned until Monday, June 19, when it is expected that some mutual basis of co-operation will be reached.

The Tenth Annual Outing of the New York and New Jersey Association of Plant Growers will be held on June 27 at Forest Park Hotel, Forest Park, Pike County, Pa. The party will leave New York at 10.00 A. M. in a special car attached to the Lackawanna Limited, arriving at the hotel at 1.30 P. M. and in time for the mid-day dinner. Refreshments will be provided en route. Rooms, lodging and meals will be provided at the hotel until the afternoon of June 29th when the party will return to New York via special car. The tickets, including fare, auto, rooms, meals and all other expenses, are only \$15.00 per person. The affair has all

the indications of being one of the Association's most unique three-day outings and will provide a most enjoyable, "different" and economical outing in the mountains and in genial company for three days.

PITTSBURGH.

Landscape men on all sides are complaining of continued scarcity of labor with no probability of relief in sight.

Clarence Mason Sallee of Pittsburgh was graduated last week from the Ohio State University with the degree of bachelor of Science in Horticulture.

DeForrest W. Ludwig served as chairman of the Floral Committee for the Milk and Ice Association's benefit performance at the Alvin Theatre last week.

During last week's celebration of the elimination of the R. R. grade crossings in Wilkesburg, Miss Emma B. Maxwell's display window was charmingly arranged with pink variegated caladium foliage. Miss Maxwell's processional float was also outlined with pink roses. William M. Turner had a most effective float composed of thousands of red and white peonies from which was scattered along the trail five thousand carnations of corresponding shades.

WASHINGTON, D. C.

July 19 has been selected for the annual field day of the Florists' Club of Washington, D. C. Captain William H. Ernest, chairman of the committee, predicted the event would be the most successful in the history of the club. Great Falls has again been selected for the event.

Harry B. Lewis was appointed chairman of the Preparedness Day committee with instructions to enter into the parade with as large a representation as possible. It was later announced that it was expected that more than 200 people directly connected with the

HIGH GRADE PLANTS

For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.

PROFITS PROFITS PROFITS

“HERE COMES THE BRIDE”

There's Money in June Weddings and June Graduations and Commencement Days for the Florist **WHO KNOWS HOW TO PLEASE.**

We can supply you with strictly up-to-date accessories, which you **must** have if you want to give satisfaction. Stock up now and have the goods to show customers. Send for prices and you will be astonished to see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

1129 Arch Street, PHILADELPHIA, PA.

production of flowers would be in line.

A number of the florists entered very attractive floats in the automobile parade in Anacostia on Friday night of last week. Gude Bros. had ten decorated cars, one of which fea-

BOSTON.

Ladies Night will be celebrated by the Gardeners' and Florists' Club of Boston at Horticultural Hall, on Tuesday evening, June 20.

Waban Rose Conservatories have taken the entire first floor adjoining the Boston Flower Exchange as a salesroom for their products and will occupy it as their headquarters on July 1.

WELCH BROS. CO. REORGANIZE.

The advertisement of the reorganized Welch Bros. Co., wholesale cut flower dealers of Boston, appears on another page. Patrick Welch, president and treasurer of the corporation is well known to all our readers in every part of the country.

Wm. Henry Hass, who is elected manager, is well known in Boston. He has had long experience in the marketing of flowers, having been in the employ of Wm. H. Elliott for several years, and of late has been engaged as a salesman for Norris F. Comley, in the Boston Cooperative Flower Market. He is very popular, and is considered one of the cleverest and most capable salesmen in the wholesale florist trade.

Frank J. Reynolds, assistant manager, is widely known throughout New England, New York State and Canada, where he has travelled considerably and acquired an intimate acquaintance with practically all the florists in this section. He started in the florist business about twenty years ago with the firm of Welch Bros. and continued for about eight years, leaving this concern to go with N. F. McCarthy & Co.,

acting in the capacity of manager of that concern for several years.

He was a salesman for a number of growers in the Boston Flower Market for two years and has recently been with McAlpine & McDonald. He has



HENRY J. HAAS.

Manager Welch Bros. Co.

tured the telegraph delivery service. Alex B. Garden had two cars, and George C. Shaffer, Fred H. Kramer and Henry Witt were each represented by a decorated automobile. Adolph Gude was assistant marshal of the parade.



FRANK J. REYNOLDS.

Assistant Manager Welch Bros. Co.

a complete knowledge of the wholesale shipping business.

There are not two men in New England connected with the florist business better fitted for the position to which they have been selected than Mr. Hass and Mr. Reynolds.

**A Florist's
Necessity**

HART'S HANDY HANDLE

Fits securely on any standard pot and by the use of a little chif-fon or ribbon gives you a Basket effect at a very small additional expense, increasing the price of your plants 100 per cent.

1	12 inches high,	\$2.50 per doz.	4	24 inches high,	\$5.00 per doz.
2	15 " " "	3.50 " "	5	30 " " "	6.50 " "
3	18 " " "	4.00 " "	6	36 " " "	9.00 " "

At Your Dealer's or Direct.

GEO. B. HART, Manufacturer, 24 to 30 Stone Street, Rochester, N. Y.

PEONIES

IN ANY QUANTITY

Extra fine dark pink and large white

Good Stock, \$4 per 100

The Best, \$6 per 100

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S

Wholesale & Commission Florists

FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1961-1965

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER Florists' Supplies

122 West 25th St., New York

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists
RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

Telephone 2860 Madison Square

WOODROW & MARKETOS

WHOLESALE

Plantsmen and Florists

37 and 39 West 28th St., NEW YORK

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from
leading growers

Full line of Florists'
Supplies

Write for quotations before
ordering elsewhere

226 DEVONSHIRE ST.,
Telephone, Main 6267-6268

BOSTON, MASS.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON June 15		ST. LOUIS June 12		PHILA. June 12	
Roses						
Am. Beauty, Special	15.00	to 25.00	15.00	to 25.00	20.00	to 25.00
" " Fancy and Extra	10.00	to 15.00	6.00	to 10.00	10.00	to 15.00
" " No. 1	1.00	to 6.00	1.00	to 5.00	3.00	to 8.00
Russell, Hadley	2.00	to 12.00	5.00	to 12.00	3.00	to 15.00
Killarney, Richmond, Hillingdon, Ward, Extra	5.00	to 6.00	4.00	to 6.00	6.00	to 8.00
" " Ordinary	1.00	to 4.00	2.00	to 3.00	2.00	to 5.00
Arenburg, Radiance, Taft, Key, Extra	6.00	to 8.00	.....	.....	5.00	to 8.00
" " Ordinary	1.00	to 4.00	.....	.....	2.00	to 4.00
Ophelia, Mock, Sunburst, Extra	6.00	to 8.00	6.00	to 8.00	6.00	to 10.00
" " Ordinary	1.00	to 4.00	3.00	to 4.00	2.00	to 5.00
Carnations, Fancy	1.50	to 2.00	2.00	to 3.00	2.00	to 3.00
" " Ordinary	.50	to 1.00	.75	to 1.00	1.00	to 1.50
Cattleyas	20.00	to 25.00	30.00	to 40.00	35.00	to 50.00
Dendrobium formosum	.....	to 35.00	.....	to 40.00	.....	to 50.00
Lilies	4.00	to 6.00	4.00	to 5.00	5.00	to 8.00
Lily of the Valley	4.00	to 5.00	3.00	to 4.00	2.00	to 5.00
Daisies	1.00	to 2.00	.75	to .35	.50	to 1.00
Mignonette	1.00	to 2.00	3.00	to 4.00	.....	to 5.00
Snapdragon	3.00	to 6.00	3.00	to 4.00	8.00	to 4.00
Peonies	2.00	to 6.00	4.00	to 6.00	1.00	to 4.00
Glaudiol	2.00	to 4.00	4.00	to 6.00	8.00	to 6.00
Calendulas	1.00	to 2.00	2.00	to 3.00	.....	to 2.00
Stocks	1.00	to 2.00	2.00	to 4.00	1.00	to 2.00
Sweet Peas	.50	to 1.00	1.00	to 1.50	.25	to 1.00
Gardenias	20.00	to 25.00	10.00	to 20.00	5.00	to 15.00
Adiantum	.....	to 1.00	1.00	to 1.25	.....	to 1.00
Smilax	12.00	to 15.00	19.00	to 20.00	16.00	to 25.00
Asparagus Plumosus, & Spreng. (too Rich.)	25.00	to 35.00	25.00	to 50.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELLICOTT ST.

BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS



In writing to Advertisers kindly mention Horticulture

Flower Market Reports

BOSTON This is the big week of graduations, commencements and all sorts of anniversary events, etc., connected with the colleges, seminaries and schools of lesser grade which abound in New England. These affairs are using up large quantities of flowers, as usual, and the Boston wholesale market has been to that extent revelling in comfort and joy. Besides, there have been lots of weddings, which supplied an outlet for choice material appropriate for such occasions. Whatever may come afterwards another week of this sort of business is reasonably assured and a good market can be counted upon. Prices run low, however, as there is a heavy supply coming in still and the demand, good as it is, has not been sufficient to create famine conditions sufficient to justify any boosting of prices. Lily of the valley is the only exception and the chances are that it will be at high notch for a long time to come.

The previous week was **BUFFALO** rather a hard one on the wholesaler and grower, especially the peony shipper and the local carnation man. There was an oversupply on these two items though had there been any demand the early part of the week the balance of the week could easily have taken care of itself. Peonies simply would not move at any price and when the time came for sales the quality had failed. The same may be said of carnations and the weather naturally was the full cause. Roses, beauties, lilies and other stock are also plentiful, though these items have moved more freely. Since Monday, the 12th, a better situation has existed, more life in the buyers and speculative buying more brisk, and it looks like a more profitable week.

In spite of handicaps **CHICAGO** Chicago market is disposing of a vast quantity of stock daily. The weather has been very conducive to soft stock and there is more or less coming that way, but also there is much that is of high grade and all of this sells to good advantage. The poorer grades are worked off for cheaper work and special sales and curbstone business. It is frequently asserted by men long in the business that the year so far is making as good a record in the sales books as other years. Wedding orders are coming in fast and using up much of the best grade of stock, particularly roses and peonies. Of lily of the valley there is a shortage and as some is included in nearly every wedding order there is a lively skirmish to locate it. There are plenty of short roses to meet any demand but of the longer ones there are more to spare. Some very fine American Beauties are now seen. Peonies are including some that are soft but the greater part are counted good stock and there will be enough in cold storage to last some time. Field daisies with long stems are plentiful. Sweet peas are inclined to be soft and are not shipping particularly well.

CINCINNATI Business has become quiet and stock is plentiful. Prices are



RAMBLER SPRAYS

The first cuts from Washington, then Baltimore, Philadelphia and New York.

\$5 to \$25 per 100 sprays

PEONIES, Unlimited quantities, all the best decorative varieties. \$3, \$4, \$5, per 100. Special prices in large quantities.

S. S. PENNOCK-MEEHAN CO.

The Wholesale Florists of Philadelphia

PHILADELPHIA 1608-1620 Ludlow St. **NEW YORK** 117 W. 26th St. **BALTIMORE** Franklin & St. Paul Sts. **WASHINGTON** 1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI June 12	CHICAGO June 12	BUFFALO June 12	PITTSBURG June 5
Roses				
Am. Beauty, Special.....	25.00 to 30.00	30.00 to 40.00	20.00 to 25.00	15.00 to 20.00
" " Fancy and Extra.....	15.00 to 20.00	20.00 to 30.00	15.00 to 20.00	10.00 to 12.00
" " No. 1.....	8.00 to 10.00	10.00 to 20.00	10.00 to 15.00	6.00 to 8.00
Russell, Hadley.....	8.00 to 15.00	3.00 to 20.00	..... to	6.00 to 10.00
Killarney, Rich'm'd, Hill'don, Ward Ord.	8.00 to 10.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
Arenburg, Radiance, Taft, Key, Ex. Ord.	4.00 to 6.00	2.00 to 4.00	3.00 to 6.00	3.00 to 4.00
Opheia, Mock, Sunburst, Extra Ordinary	8.00 to 10.00	6.00 to 10.00	..... to 8.00	6.00 to 10.00
Carnations, Fancy.....	4.00 to 6.00	2.00 to 5.00	4.00 to 6.00	3.00 to 4.00
" Ordinary.....	2.00 to 3.00	2.00 to 3.00	2.00 to 2.50	2.00 to 3.00
Cattleyas.....	..... to 1.50	1.00 to 2.00	2.00 to 2.50	1.00 to 1.50
Dendrobium formosum.....	50.00 to 60.00	40.00 to 60.00	40.00 to 50.00	50.00 to 60.00
Lily of the Valley.....	10.00 to 12.50	8.00 to 12.00	6.00 to 10.00	6.00 to 10.00
Daisies.....	..... to 5.00	4.00 to 6.00	4.00 to 6.00	4.00 to 5.00
Mignonette.....	..... to .....	.25 to 1.00	.50 to 1.00	2.00 to 3.00
Snapdragon.....	..... to	3.00 to 6.00	1.00 to 2.00	..... to
Peonies.....	4.00 to 8.00	4.00 to 8.00	3.00 to 6.00	..... to
Gladioli.....	..... to	4.00 to 8.00	3.00 to 6.00	2.00 to 8.00
Calendulas.....	4.00 to 6.00	6.00 to 10.00	3.00 to 6.00	4.00 to 8.00
Stocks.....	2.00 to 4.00	2.00 to 3.00	1.00 to 3.00	..... to
Sweet Peas.....	2.00 to 3.00	..... to	1.50 to 3.00	..... to
Gardenias.....	.50 to .75	.50 to 1.00	.50 to 1.00	.30 to .75
Adiantum.....	..... to .....	.10 to 1.50	10.00 to 15.00	..... to
Smilax.....	..... to 1.00	1.00 to 1.50	1.00 to 1.25	1.00 to 1.25
Asparagus Plu. & Spreu. (100 Bhs.)	15.00 to 20.00	12.00 to 20.00	15.00 to 20.00	15.00 to 20.00
	\$5.00 to 30.00	25.00 to 50.00	20.00 to 30.00	35.00 to 50.00

rather low. The rose supply is large but only a part of it is of high quality. Carnations have been affected by the heat and but a few are really good. Gladioli and lilies are plentiful. Some good sweet peas may be had. Orchids and lily of the valley have an excellent demand. Snapdragon and water lilies meet with a fair call.

NEW YORK

We record with much satisfaction a decided change for the better in this week's trading. The rose supply has been reduced and they as well as carnations are moving nicely—the latter at considerably better prices. Lily of the valley is particularly strong. Peonies are abundant and cheap but, as with everything else, "there is always room at the top" and it is surprising to see the avidity with which some magnificent specially cultured peony blooms now coming in from one grower are taken up at good prices, while large quantities of ordinary quality remain unsold. It is only fair to remark that Henry Weston is the grower of these flowers and John Young & Co. sell them—or, rather, they sell themselves at John Young & Co.'s! Lilies are down to

the usual late spring prices. Cattleyas are superb and plenty of them but, like the peonies above alluded to, only the top-notchers bring a respectable price.

PHILADELPHIA

After a stroll around the cut flower market here your correspondent has come to the conclusion that the eternal principles (whatever they may be) of the Republican party must be upheld, and that if there had not been so many peonies around things would not have been so bad, and that the standard bearers of the new crusade are a polar bear and an icicle, and that American Beauty and other red roses sold pretty well, but the horrible mess Democracy has made in our foreign policy has demoralized the markets of the world and brought in too many Easter lilies at a time when they were not wanted. While the carnations are plentiful and of splendid quality the horrible snub that Wanamaker gave to Brumbaugh has put a damper on the splendid demand that everyone expected. Orchids would sell better if the Seminole Indians down near

(Continued on page 835)

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

MOORE, HENTZ & NASH

Wholesale Commission Florists

55 and 57 West 26th Street
Telephone No. 786
Madison Square **New York**

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE 608 MADISON SQ., NEW YORK

JOHN YOUNG & CO.

WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.
Tel. 5883 Mad Sq. 119 W. 28 St., New York

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 2870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.

Wholesale Commission

READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE 2281 3089 FARRAGUT 131 West 28th St., NEW YORK CITY

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.

WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US
Prices Right. Consignments Solicited. Telephone Connection

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST GRADE OF VALLEY ALWAYS
GARDENIAS, DAISIES, ROSES, CARNATIONS

JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 759

Centrally Located, The Hub of the Flower Market Section

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Wholesale Florist

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NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS

	Last Half of Week ending June 10 1916		First Half of Week beginning June 12 1916	
American Beauty, Special	\$0.00	to \$5.00	\$5.00	to \$0.00
" Fancy and Extra	10.00	to 15.00	10.00	to 15.00
" No. 1	3.00	to 6.00	3.00	to 6.00
Russell, Hadley	3.00	to 20.00	2.00	to 20.00
Killarney, Richmond, Hillingdon, Ward, Extra	3.00	to 6.00	3.00	to 6.00
" Ordinary	1.00	to 2.00	1.00	to 2.00
Arenburg, Radiance, Taft, Key, Extra	4.00	to 6.00	4.00	to 8.00
" Ordinary	1.00	to 3.00	1.00	to 3.00
Ophelia, Mock, Sunburst, Extra	4.00	to 8.00	4.00	to 8.00
" Ordinary	2.00	to 3.00	2.00	to 3.00
Carnations, Fancy	1.50	to 2.00	2.00	to 3.00
" Ordinary	1.00	to 1.50	1.00	to 1.50

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NEW YORK

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MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 833)

Jupiter, Florida, who still think they own slaves and don't know that the war of sixty-one is over, would wear those flowers themselves instead of flooding the market here with them. We could not make much sense out of all this, but we pass it along for wiser heads to puzzle out.

For the time being the game is over, and the trade is philosophically and contentedly nibbling at the odds and ends of business, as it were. As for the flowers themselves, there are even more than plenty, the really good ones going at fair prices, the ordinary ones at "any old prices," as a wholesale man put it. On the past two Saturdays the downtown streets have been noticeable for the number of boys disposing of good carnations at practically the purchasers' prices. Present prospects are that material will shorten up very quickly. Lilies of the valley, particularly, will be scarce. Just now growers are busy replanting their houses.

Demand and quality of **ST. LOUIS** stock are both good and business among the retailers has been fine. The many rain storms have hurt outdoor stock greatly. Prices remain as quoted last week. Roses are still in good condition. These and lily of the valley have a big call. Carnations are also in demand and the supply is not overabundant. Gladioli sell well and window displays of them are seen everywhere. Hardy white phlox has a big demand, also coreopsis.

Stores were exceptionally busy last week. Stock continues plentiful and for the most part good. Flowers, usually burnt up by the middle of June, are coming into the market in fair saleable shape. This is particularly true of carnations and sweet peas. Roses from the north are very good and find ready sale. Lilies, of which there is a large supply, move but slowly. Lily of the valley continues scarce and continues to bring \$6 per hundred. Pond lilies are being received in larger quantities. Rambler roses are quite late this year and at this writing the market is caught short, with a good demand. Tausendschoen and others of the early varieties are passing off the market; Dorothy Perkins and the later varieties are now just beginning to show color.

PERSONAL.

Announcement of marriage intentions has been made by Wm. M. Post, florist, New Bedford, Mass., and Laura Jolicoeur.

Professor Arno H. Nehrling, department of floriculture, Mass. Agricultural College, Amherst, and Miss Ada Kathryn Joseph, of Jasper, Ind., will be married on June 29th at South Bend, Ind.

Announcement has been received of the marriage of Thomas Boothe De Forest of the Lord & Burnham Company's New York office to Jessie Lord, daughter of Mr. and Mrs. W. A. Burnham, on Saturday, June 10, at Irvington-on-Hudson, New York.

PATRICK WELCH, WHOLESALE FLORIST

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STORE OPEN FOR BUSINESS AT 6 A. M.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending June 10 1916		First Half of Week beginning June 12 1916	
Cattleyas	15.00	to 25.00	15.00	to 35.00
Dendrobium formosum	20.00	to 25.00	20.00	to 25.00
Lilies	8.00	to 5.00	3.00	to 5.00
Lily of the Valley	1.00	to 4.00	2.00	to 5.00
Daisies	.50	to 1.00	.50	to 1.00
Mignonette	1.00	to 3.00	1.00	to 3.00
Snopdragon	2.00	to 6.00	2.00	to 6.00
Peonies	.50	to 2.00	.50	to 2.00
Gladioli	2.00	to 4.00	1.00	to 4.00
Calendulas	1.00	to 2.00	1.00	to 2.00
Stocks	1.00	to 2.00	1.00	to 2.00
Sweet Peas	.25	to .75	.15	to .75
Gardenias	4.00	to 12.00	4.00	to 15.00
Adiantum	.50	to 1.00	.50	to 1.00
Smilax	10.00	to 18.00	10.00	to 12.00
Asparagus Plumosus, & Spreng (100 bunches)	15.00	to 25.00	15.00	to 25.00

I Can Sell Them For You!

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Write for information or call and talk it over.

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Washington, D. C.—Julius Dilloff, New York; R. W. Taylor, with Langhan's flower shop, Wheeling, W. Va.; Hugo F. Hoffman and C. D. Miller, Jacksonville, Fla.

Chicago — John Eitel, Greencastle, Ind.; Chas. A. Moss, Spartanburg, S. C.; T. W. Reed of Waco Floral Co., Waco, Texas; Geo. Dysinger, representing Ionia Pottery Co., Ionia, Mich.

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We handle every variety of cut flowers. We have 22 years' experience behind us, and we do not expect a gold medal for doing our full duty by our consignors and customers. You cannot go very far wrong when dealing with us.

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Lorraine, 2 1/2 in. pots, \$12.00 per 100; Cincinnati, 2 1/2 in. pots, \$15.00 per 100; Mrs. J. A. Peterson (New), 2 1/2 in. pots, \$25.00 per 100; \$200.00 per 1000.
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Forcing Bulbs and Plants.
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Dear Sir: It will be a decided advantage as regards prices and quality to place your order with us.

Soliciting your order through this ad cuts down the overhead selling expenses and you positively get lower prices and better quality. Our terms are liberal and are a guarantee that you get a square deal, all bulbs guaranteed true to name or money refunded.

Write us and upon request we will mail you our booklet giving prices f. o. b. New York or Chicago, and we also cheerfully furnish you with any information that may be desired. Those of our friends who will mail us a list of their requirements will find it has paid them to do so.

Awaiting to hear from you at your pleasure, we remain, Yours very truly,

Westerbeek & Klyn.

Sassenheim, Holland.
Write to WESTERBECK & KLYN, 14 STONE ST., NEW YORK, N. Y.

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Bulbs of all descriptions. Write for prices.
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Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

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Early Lavender Pink Chrysanthemum
Alex Guttman, also Emma, a Garza
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pale pink.

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CYCLAMEN. Best strain. Separate colors or mixed, 3 in. pots, \$8.00 per 100, for May delivery.
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MANNETTO HILL NURSERIES,
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John Wanamaker, Newest, Handsomest.
Best. New color, new form and new habit
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Dracaena Indivisa, nice plants, 4 in., \$10
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Geraniums out of 3½ inch pots, \$7.00 per
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Geraniums, 3½ inch, in bud and bloom,
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Variegated, 4 inch, heavy, \$12.00 per 100.
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GERANIUMS—1500—3½-in., 5 varieties
assorted, good bedding stock, in bud and
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Horticultural Importers and Exporters.
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McHutchison & Co., New York.
Lily Bulbs from Japan.
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R. M. Ward & Co., New York, N. Y.
Japanese Lily Bulbs of Superior Quality.
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Chas. Schwake & Co., Inc., New York City.
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National Nurseryman Publishing Co., Inc.,
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Aphine Mfg. Co., Madison, N. J.
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- W. & T. Smith Co., Geneva, N. Y.
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- The D. H. Nelson Co., Danville, Ill.
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- Ray State Nurseries, North Abington, Mass.
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- R. Vincent, Jr. & Sons Co., White Marsh, Md.
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RHODODENDRONS

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- Guttman & Raynor, Inc., New York City.
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SEASONABLE PLANT STOCK

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Md.
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- Salvia Splendens, out of 3 1/4 in. pots, \$5.00
per 100. LEONARD COUSINS, Jr., Con-
cord Junction, Mass.

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Seeds with a Pedigree.
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- Metropolitan Material Co., Brooklyn, N. Y.
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Gold Medal of Honor Winter Orchid Sweet
Peas.
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- The Davey Tree Expert Co., Kent, Ohio

VASES

- H. Bayersdorfer & Co., Philadelphia, Pa.
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White Marsh, Md.
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SQUIRES, Remsenburg, N. Y.

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Pino-Lyptol Weed Killer.
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The S. S. Pennock-Meehan Co., 1216 H St.,
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SITUATION WANTED by married man, age 33, either at a nursery or private estate; best of references; please state wages. Address "L," care HORTICULTURE.

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New York City.
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Metropolitan Material Co., Brooklyn, N. Y.
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Ant. C. Zvolanek, Lompoc, Calif.
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RAMBLER SPRAYS.

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REORGANIZATION.

Welch Bros. Co., Boston, Mass.
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ROSE PLANTS.

Montrose Greenhouses, Montrose, Mass.
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NEW BOOK JUST ISSUED**Plant Propagation Greenhouse and Nursery Practice** By M. G. KAINS

So many discoveries of new facts by plant investigators, shortcuts and "wrinkles" worked out by plant propagators, and nursery, greenhouse and garden methods simplified or made more effective, have made books hitherto available on plant propagation out of date.

There has also been an insistent call for a volume that would not only include the character of information wanted by nurserymen and other plant propagators, but also discuss the subject of plant propagation from the standpoint of fundamental principles, and include the latest conclusions advanced by investigators throughout the world.

This new book by Professor Kains will appeal with equal force to the amateur, the professional propagator, and the teacher in agricultural colleges and schools.

The book devotes many pages to special plant lists and condensed directions for propagation of vegetables, fruits, annual and perennial flowers, bulbs, ferns, orchids, cacti, evergreens, deciduous trees and shrubs, vines, water plants, greenhouse and house plants and palms.

The table of contents includes: An introduction on general principles; germination, seed testing, potting, layering, bottom heat, cuttings, pieces of cuttings, graftage, and theories and laws, Daniel's experiments in graftage, tree stocks and scion handling, grafting, waxing and wound dressing, methods of grafting considered individually, budding methods, nursery management, and laws affecting nursery stock.

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CORRESPONDENCE SOLICITED.

WHAT THE S. A. F. HAS A RIGHT TO EXPECT AT THE HOUSTON CONVENTION.

In an issue in one of the trade papers of June 3 an editorial appeared headed, "What Houston Has a Right to Expect." I wish to make reply to this article, and state what the S. A. F. has a right to expect at the Houston Convention.

The southern florists are alive to the importance of the meeting of the convention of the S. A. F. in the South this summer. We will avail ourselves of taking advantage of the opportunity in discussing such questions that will promote horticulture in general. We realize the great possibilities that lie before the southern horticulturists for development of our profession. We also realize the wonderful amount of good to be derived from the members of this organization in our midst, which will be a wonderful stimulant and of great help to the southern florists in discussing such matters that will tend to promote the cause of horticulture in the South.

On the other hand, we believe that the coming of the members of the S. A. F. from other sections to the South will be of great interest to them as they will have an insight into the possibilities that lie before the southern florists, and will, therefore, lay their plans to cooperate with us in the development of this section of the country.

But, why should we lay aside the important business of this society at the Houston Convention? We will have a large delegation from other sections, together with a record breaking delegation from the South, who have the interest of this Society at heart and are thoroughly familiar with the detail work of this organization, and are thoroughly prepared to vote on such matters that are of interest to the society. Time is not so short but we will be able to take up these questions

and vote upon them intelligently.

The membership will be a representative one, and there is no doubt in my mind but that it is only right and proper that these questions should be taken up at this time as they are scheduled. There was a feeling at the time the convention went to San Francisco that possibly the western members would take matters in their own hands, and vote upon such matters that would be to their own interest, and possibly not to the interest of the society as a whole. It was demonstrated at the San Francisco Convention that the western boys had the interest of the society at heart, and did not make any attempt at railroading matters that were to their selfish interest. You may expect the same at the Houston Convention. The society may expect the southern members to use their best judgment, and will vote upon such that will be of interest to the society as a whole.

I want to state here that insofar as I am personally concerned, I expect to work diligently to this end, and I believe there will be no opposition from the other members along these lines. Any attempt to table such questions that are scheduled for this meeting will certainly be fought to the limit.

Mr. Jno. Young, 53 W. 28th St., New York, has been named as a chairman of a committee to make plans and receive reservations for those who care to make the trip by water from New York to New Orleans for the Houston Convention.

This is considered an ideal trip, and all those going to the Convention from the East should take advantage of this opportunity and write Mr. Young immediately, advising him of their intention of making the trip by water. All members will go on the same boat, and it assures a most enjoyable time for those who can spare the time to make the trip this way.

R. C. KERR, Vice Pres.

VIEW IN THE S. A. F. CONVENTION CITY.



The accompanying illustration shows the students' headquarters at Rice Institute, Houston, Texas, erected three years ago. Rice Institute is endowed

with ten million dollars. The estate was left to Houston by William March Rice, who was murdered by Patrick in New York a few years ago.

ARBORETUM NOTES.

Early Summer Lilacs.

The so-called Persian Lilac (*Syringa persica*) is now in flower. This is a native of Afghanistan and is said to have been cultivated in Persia and India from time immemorial and to have reached eastern Europe nearly three centuries ago. It is a broad, rather low shrub with long-pointed leaves and small fragrant flowers in few-flowered clusters which are crowded at the ends of the slender drooping branches and appear like one long narrow inflorescence. The flowers are pale lilac color. There is a white-flowered form (var. *alba*) and one with deeply lobed leaves (var. *laciniata*). The Persian Lilacs are graceful and delightful plants, and although they were early brought to the United States they are now too rarely found in American gardens. Crossed with the common Lilac (*S. vulgaris*) the Persian Lilac produced in the Botanic Garden at Rouen a hybrid with broader leaves and immense clusters of reddish flowers intermediate in size between those of its parents. This hybrid is one of the most vigorous, largest and most useful of all Lilacs. Unfortunately it has been called *Syringa chinensis*; it is also known as *S. rothomagensis* and as the Rouen Lilac. There is a variety (var. *alba*) with pale pink, not very attractive flowers, and there are forms with flowers deeper red than those of the type, and with double flowers.

Syringa villosa.

This is a large, very vigorous and hardy shrub from northern China which is now just beginning to open its flower-buds. The flowers are pale rose-color or rarely nearly white, and are produced in immense quantities in short broad clusters. In spite of the disagreeable odor of the flowers this is a valuable plant as it is one of the last of the true Lilacs to flower and greatly prolongs the season of Lilac flowers. Crossed with the Hungarian *S. Josikaea*, which is also now in flower, *S. villosa* has produced in Paris a hybrid race to which the name of *S. Henryi* has been given. One of these hybrids known as *Lutece* is now in flower and is one of the handsomest of garden Lilacs. It is a large and vigorous shrub with large dark green leaves and great clusters of blue-purple flowers. Some of the new Chinese species will flower a little later and these will be followed by the tree Lilacs of north-eastern Asia.

Robinia Kelseyi.

This Rose Acacia, which was discovered only a few years ago on the

slopes of the southern Appalachian Mountains, proves a hardy and valuable garden plant. The flowers are smaller and lighter-colored than those of the well known Rose Acacia (*R. hispida*) which flowers a little later, and the branches are not covered with the viscid hairs to which the Rose Acacia owes its name. *R. Kelseyi* is a shrub sometimes growing from six to eleven feet high, with slender stems and branches, leaves composed of nine or eleven narrow lanceolate leaflets which are bronze color as they unfold, and short racemes appearing with the unfolding leaves and composed of from four to seven flowers produced from the axils of the leaves of short lateral young branchlets which grow from end to end of the branches of the previous year. Sometimes as many as four flower-clusters are developed on one of the short lateral branchlets, and as the flowers in the upper clusters on the branchlet do not open until later than those of the lower clusters the plants are covered with fresh flowers for a long time. This Robinia will prob-

ROSE GARDENS AT ARLINGTON, VA.

As previously reported in HORTICULTURE, the members of the American Rose Society on the occasion of their visit to Washington last month found it impossible to score the roses because of the heavy rainstorm of several days' duration which had destroyed so many of the blooms, and William F. Gude, was appointed to look after the matter, with instructions to appoint a suitable committee and to have the roses scored at an early date.

The committee consisted of Adolph Gude, chairman; George E. Anderson, Twin Oaks, D. C., and George W. Hess of the U. S. Botanic Gardens, with Prof. F. L. Mulford of the Dept. of Agriculture as an advisory member. These found the gardens in very fair shape. A hailstorm on Saturday had done a considerable damage all around, but this was less noticeable among the roses than elsewhere. More than a hundred roses were looked at, but in many cases the judges felt that it would not be fair



JUDGES AT ARLINGTON TEST ROSE GARDEN.

Left to Right: G. E. Anderson, Adolph Gude, George W. Hess, Prof. F. L. Mulford.

ably prove to be a better garden plant than the Rose Acacia; for although the flowers are not as large or of as deep rose-color it does not spread by underground stems, a habit which makes the Rose Acacia a weed which once established it is almost impossible to control.—*Arnold Arboretum Bulletin*.

NEW ROSE LOS ANGELES.

We have received from Fred Howard, the raiser, a color process picture of the new rose Los Angeles. It is a very attractive flower, color luminous salmon and lemon and a sturdy grower as shown by the plate. Mr. Howard makes no claims for it as a forcing rose but says, that it has already made an enviable record as a bedding variety.

NEWS NOTES.

Danbury, Conn.—E. E. Matthewson recently lost his delivery auto by fire.

Princeton, Ind.—O. M. Gilbert, of Clinton, Ind., has purchased the Princeton Vegetable and Flower Gardens, established by W. J. Ritterskamp.

BUSINESS TROUBLES.

Lawrence, Kan.—Ince Nursery Co., assets \$6,000, liabilities \$19,000.

to mark them because of the insufficiency of bloom or because of storm damage.

The rose Gustav Grunerwald received the highest mark during the scoring, attaining 89 points, while its nearest competitors, Radiance and Konigin Carola, received 84. Two singles were also judged and Waltham Scarlet received 89 points, falling down seven points on fragrance and losing two points each on floriferousness and vigor.

ITHACA TEST ROSE GARDEN.

The rose test garden established at Cornell University, Ithaca, N. Y., will be opened for judging by the American Rose Society on Thursday, June 22. Members are invited to assemble in the offices of the Department of Horticulture in Roberts Hall and go from there to the rose garden. The Syracuse Rose Society is planning to attend in a body. A cordial invitation is extended to all.

BENJ. HAMMOND, Sec'y.

Beacon, N. Y.

ROSE WEEK AT SPRINGFIELD, MASS.

Rose week, including two Sundays will be observed in Springfield from June 25 to July 2 inclusive. This week will be dedication week also,

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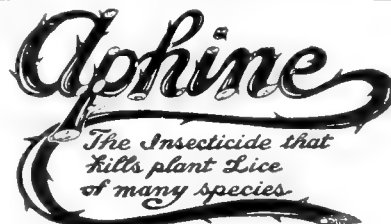
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when the public will by their visits dedicate the garden to the use of the public. The garden is municipal, having been laid out and planted by the Park Department of the city of Springfield, Massachusetts, last year. Backed up by shrubs and thousands of perennials are 3,000 rose bushes in beds, laid out of different sizes and surrounded by turf walks. The garden may be reached by automobiles over good roads. It is also within short distance of the street railway.

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PHILADELPHIA NOTES.

Here's a tip that's worth the growers attention. The golden coreopsis is a beautiful flower and a grand border perennial but as a seller in the cut flower market in June, July and August there is nothing to it. Grow gaillardia instead; the dark ones with clear, well-defined colors. They sell. Forget *Coreopsis grandiflora* and grow gaillardia instead.

In reply to a number of inquiries from old friends as to why we do not come out of town and report the local shows, would say that there are so many of them nowadays that it is impossible, and if you make a rule with one it should be with all—and impartial. What little reporting we do is merely as a side line to our real business. We are not yet in a position to adopt the dictum: "When your pleasure interferes with your business, drop your business."

CLUB AND SOCIETY NOTES.

The Worcester County (Mass.) Horticultural Society had its June exhibition of flowers, fruits and vegetables in Horticultural Hall, Worcester, on June 8. The display of iris was a feature of the show, with collections from the gardens of George N. Smith of the Wellesley Nursery, Hadwen Arboretum, Mrs. H. J. Eagon, S. E. Fisher, Mrs. Homer Gage, Edward W. Breed and Mrs. I. E. Sawyer. Rhododendrons and peonies also attracted considerable attention from the hundreds of flower lovers who visited the hall.

The summer flower show of the Connecticut Horticultural Society will be held June 27-28. Special prizes are offered as follows: Silver cup by Knight & Struck Co. for best three spikes, of *Delphinium Belladonna*; Stumpp & Walter Co., silver cup for best general exhibit; Joseph Breck & Sons, Boston, 1st and 2d for collection of roses; Arthur T. Boddington Co., Inc., New York, 1st and 2d for collection of sweet peas. For roses there are 19 classes; hardy perennials, 23 classes; sweet peas, 14 classes. It is hoped to have members of the Ladies Garden Clubs of Hartford and Middletown exhibit in a department set aside for this purpose.

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TEMPLATED.**

Marquette, Mich.—E. R. Tauch, house 25x125.

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High Point, N. C.—Frank Ford, Metropolitan house 13x100.

Rochester, N. Y.—J. B. Keller Sons, 1015 Smith avenue, one house.

Sault Ste. Marie, Mich.—P. Rawlinson, 713 Easterday avenue, one house.

Muskogee, Okla.—Muskogee Carnation Company, two houses each 28x186.

Greenville, Mich.—Greenville Floral Co., North Lafayette street, additions.

South Manchester, Ct.—Mrs. Helen C. Chapman, 75 Forest street, one house.

Erie, Pa.—C. W. Zuch & Son, vegetable forcing house. Lord & Burnham contract.

The Scranton, Pa., office of the King Construction Co., reports the following contracts for material and complete erection:

Peckville, Pa., Wm. J. Broad, one house; Chincilla, Pa., W. E. Reed, two houses; Strasburgh, Pa., Wade Gayley, house 40 x 140; Binghamton, N. Y., Wm. E. Crabells & Sons, one house; Elmira, N. Y., A. H. Gould, one house; Williamsport, Pa., William J. Evenden Sons, three houses, 30 x 250; Milton, Pa., Bruce Chuger, two houses; Johnson City, Pa., Wm. Crabells, one house; Rockport, Pa., Paul Durlinger, curved eave house, 21 x 75.

The rose stakes which are being advertised in this paper by the Carnation Support Co., of the "selftying loop" pattern are highly recommended by Poehlmann Bros., who use 168,000 of them, Halifax Garden Co., John H. Dunlop and others. Notice the tempting prices.

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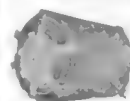

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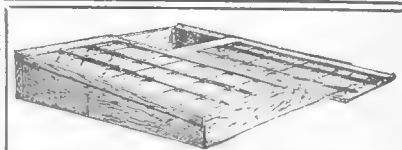
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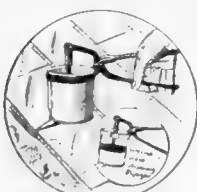


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Vol. XXIII
No. 26
JUNE 24
1916

HORTICULTURE



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By Julius Roehrs Co., Rutherford, N. J., at International Garden Club Summer Show

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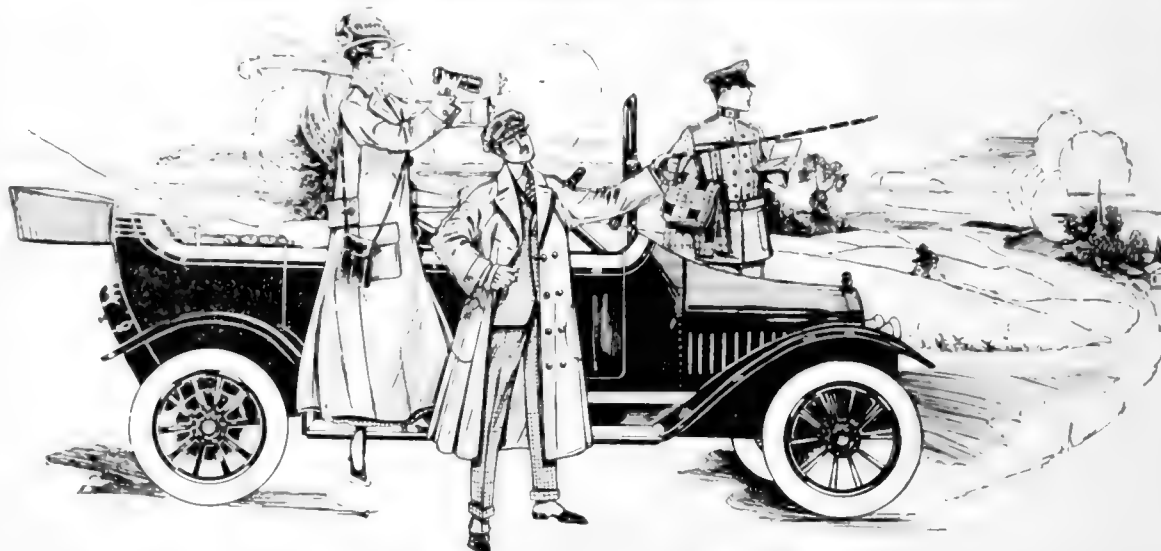
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NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—Pope.

Adiantums

No asparagus, no matter how soft and feathery will ever entirely take the place of adiantum and every retail grower who can provide a house in which he can maintain a temperature not less than 60 degrees during zero weather, should devote some bench room to its culture. Stock out of 2½ inch pots is all right, but better and quicker results will be obtained by making use of larger plants. The adiantum, like most members of the fern family, flourishes in mellow loam. This with a fair amount of well-rotted cow manure and a little sharp sand will do nicely. Provide good drainage and allow about one foot of space between the plants. The present is as good a time as any to prepare for planting out and even if you should not get as large and as fine fronds as your wholesaler supplies, you will appreciate having a good number of plants to cut from next winter.

Care of Violets

They should grow without a check and this necessitates faithful watching. Remove every runner. Keep the plants free from diseased or yellow leaves. Watch out for greenfly or other insects; don't wait until they pay a visit, but use fumigation and a weak nicotine solution regularly to keep them away. Do not wait for weeds to come, but go over the benches twice a week if possible. A very important matter at this time is to keep the surface of the benches loose by continued scratching. Of the leaders in cut flower stocks, grown extensively for winter production none probably requires more watchful attention during hot and dry summer than does the violets. The slightest neglect, the least delay or oversight, very often costs the grower dearly. Keep the plants clean and well watered and syringed during bright weather, but during dull weather keep your house as dry as possible.

Cinerarias

It is well to make three sowings—one early in July, another about mid-August, and the last in the middle of September. The last dates are the best for most growers as they will have them from February on to Easter, which will be not so late next year. Use fresh seeds of the best strains to be had. Sow on leaf-mold plentifully intermixed with clean, sharp sand. Place the trays in a cold frame. Seeds of *Cineraria* hybrids started about this time germinate most readily and with proper attention during the warmest months of summer are least difficult to work into good stock. When the seeds are up lay off the sashes on rainless, pleasant nights al-

together. Time to transplant is after the seedlings have developed their third leaf. Keep moist and shaded, but let the sashes be raised a few inches from the start unless in unusually cold windy weather. Keep clean by frequent fumigations.

Orchids

All such *Cattleyas* as *Mossiae*, *Mendelii*, *Warneri*, etc. when through flowering should be given new material and when in poor condition repot, using *osmunda* fibre, and sphagnum moss with a liberal drainage. These orchids require every encouragement in the way of heat, light without direct sunlight, and moisture, for they have baffled quite a few who have tried to grow them. During now and through the summer see that they don't suffer for the want of water. Now as the season advances the *Cattleya* department will need more air thus necessitating more thorough and frequent damping of the walks and under the benches, with a syringing overhead once or twice a day. When there is a spell of damp weather don't do much damping, and it will be necessary to keep on air with a little fire heat so as to keep them in good shape.

Gardenias

Early propagated stock of gardenias should be well-rooted in four inch pots by this time. To have good stock for next winter's flowering the house or bench should be prepared right away. On the way the soil is prepared depends much of the success or failure. The best compost is a loam with plenty of fibre in it, but always avoiding a heavy soil. A very good mixture is fibrous loam three parts, well-decayed cow manure two parts with a sprinkling of bone. It is a good plan to place a layer of broken crocks on the bottom of the benches which will insure a sweet soil. They can be planted about fifteen inches apart each way and see that they are well firmed around the ball. Keep plenty of atmospheric moisture in the house. On all good days give them a good syringing at least twice a day during summer.

Pelargoniums

Now is a good time to give pelargoniums a rest. The best place for them is outside in full sun and gradually reduce the water supply. When the foliage takes on a yellow color the plants can be placed on their sides for about three weeks. This will thoroughly ripen up their growth and put them in condition to break again later.

Next Week:—Chrysanthemums; Crotons; Orchids; Raising Perennials; Compost for Carnations; Stock Plants.

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HORTICULTURE

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The
 S. F. A.
 treasuryship

In the passing away of William F. Kasting the Society of American Florists is bereft of a most efficient and capable officer. The position of treasurer for such an organization, entailing a considerable amount of labor and requiring much sagacity and sound financial judgment in the investment of its funds to good advantage, is no sinecure and men who can handle it with so much ability and loyalty as Mr. Kasting did are not found at every turn. There is little that Horticulture can add to its appreciation of Mr. Kasting and his worth as expressed in the obituary notes published in our issue of last week, but we are pleased to record the selection by President MacRorie of so good a man as J. J. Hess to take up the work which Mr. Kasting has laid down and assume its responsibilities until the Society shall come together and register its choice of a successor. Mr. Hess is a life member of the Society since the year 1909. He is one of the strong representative men financially and socially of the great middle west and we believe his selection will be received with much favor by the rank and file of the S. A. F.

What the
 Peony is
 entitled to

The consumption of peony blooms for commercial florists' use has increased apace in recent years and, in the aggregate, amounts to a considerable figure in the season's flower output. The peony comes in at a time of the year when the call for large decorative work is very general and it is exceeded by no other flower in adaptability and usefulness for producing imposing effects on a large scale. It seems, therefore, unfortunate that so little attention is paid by those who conduct our peony exhibitions to this very important phase of the peony's place in the floral world. Even the American Peony Society at its annual show held in New York City had nothing more artistic to present than the antiquated groups and rows of stove-pipe jars of blooms, a method of displaying such material which serves the purpose of supplying names and identities of varieties for those who may be interested but does practically nothing towards extending the sphere of practical service and utility of the peony as a cut flower through the imparting of popular knowledge concerning the splendid decorative qualities of this noble flower which neither the chrysanthemum nor the dahlia can outshine. It does seem as though we ought to do something better in our exhibition arrangement than is done by the street hawker, for instance, who is a familiar figure on the streets of New York City with his push-cart load of jars filled with peonies in manner exactly similar to what was set forth at the Peony Society's show. The American Peony Society has done some excellent work during its existence, but here is one direction in which there is room for a great awakening. There is no reason why they should neglect it and we shall hope to see a good start made at Philadelphia next year.

A live
 society

The announcement by the Executive Committee of the American Rose Society of their proposal to inaugurate a systematic campaign of inquiry into rose diseases and the best methods of combatting these troubles is very encouraging and should be a source of much gratification to all rose growers. A better place for this important work than the place selected—Cornell University—it would be difficult to suggest and Professor Whetzel's interest and services will be invaluable. One evident reason why the State colleges and similar institutions have done so little for floriculture is simply that they have not been asked to do so and followed up by the floricultural people, which is greatly to be re-

E. H. Wilson, M. A.

For his services to Botany and Horticulture, Harvard College conferred the honorary degree of Master of Arts on Ernest Henry Wilson of the Arnold Arboretum. All who know Mr. Wilson and their number has grown apace during the few years he has lived and worked in this country—will be pleased to learn of his exceptional honor of which he is the recipient. It has been worthily won and is a recognition worthily bestowed. E. H. Wilson has been a frequent contributor to the columns of Horticulture and Horticulture is proud to be among the first to publicly extend congratulations.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur C. Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Planting

With prospects of a wet cloudy season ahead, growers cannot afford to delay planting any longer than is absolutely necessary. We hope the weather will not continue as it is at present. Heavy showers at night, accompanied with fog when it is not raining, do not make ideal weather for growing roses. It is therefore advisable to plant early, even though the old plants have to be sacrificed, and unless the old plants are doing real well it will pay to do so. Last year spring business was so good that many growers planted very late, and with the dark rainy summer and fall the stock did not root well and the result was that the cut was light all winter, the winter itself being very severe making matters much worse. When cleaning the houses after wheeling all the soil out, see that everything is cleaned thoroughly as fungus will thrive during the dark weather and there is likely to be more disease than during clear weather. Even though the time is short and work behind the regular schedule it will pay to do things well as we go along and avoid trouble later. See that the benches are well gone over with hot lime wash as the plants will not root very fast during the cloudy weather, and if there is fungus in the soil to attack and destroy the roots it will take quite a while to make more and meanwhile the wood on the plant will go to sleep and may not wake up until spring.

Planting Shawyer

This one rose does not mind being planted late and if nice plants are used planting can be done away up into August. A house planted last year in late July, cut nice stuff on the first of September, receiving its first dose of liquid manure one month after planting. Nice stock was cut all winter, with a heavy cut in the spring. To do well the plants must be vigorous, free from spider and spot. The sod should be at least one-third cow manure, well decayed, so that it will not burn the new tender roots that the plants will send out as soon as they begin to settle in their new quarters. Under ordinary conditions we would not advise using liquid manure so soon after planting but this house was an exception and the plants were well able to take it.

Watch Out for Spot on the Young Plants

With dark rainy weather it will be advisable to be very careful in watering and syringing young plants, more so those that are pretty well up and more or less crowded. Go over the plants every now and then, tak-

ing off all yellow leaves and all spot that may be lurking here and there. As this is done set all small plants to the south side of the bench and the taller ones to the north, so there will be no poor plants among the good ones. The good ones take water oftener than the poorer ones and more of it, and if there was a weak plant here and there among the good ones, it would naturally be too wet all the time and would surely start spot, which would easily spread to the plants surrounding it. We do not worry much about spot except when it appears here and there on the Beauties and Ophelias. It will go right through these and take many leaves with it unless checked. The other roses will generally have a spot here and there, but with good care that is as far as it will get on them unless conditions for its spread are made very favorable by careless syringing or watering. Water as early in the morning as possible so that the plants will have every chance to dry off by night, the same being true of syringing. During the cloudy spells see that the plants are not over watered. This could only happen with potted stock with heavy close soil and poor drainage. With open soil and plenty of porous material under the pots the plants should not suffer from too much water, unless they are watered too frequently. When they have to be watered on cloudy days it will be well to run through the houses last thing at night and blow plenty of air-slacked lime around, which will dry out the air thus making conditions unfavorable for spot. With potted stock, the lime should not be blown under the plants but into the air above the walks so that the plants will not be whitewashed. Be very careful to keep the rain out should there come a shower, and night men should be instructed to put the vents down in the houses with young stock first. It is best to be on the lookout for storms, and put the houses down so they shed until a little before it starts to rain, and then lower them more. In this way the vents will not be closed up too suddenly and it will be better for the plants. It is not always possible to do this however, and no chances should be taken. If the storm comes up too quickly, the houses had better be lowered away down at once. During mild rains it is best to lower the vents so they shed, and if the rain comes in, lower them some more. On chilly nights steam should be kept in the houses. With such seasons as the last few we have had, it is best to keep the main boiler on all the time as it will save coal in the end, for it takes both coal and time to start a fire again and again.

gretted as there is much that the college people can do to help along the florists' cause. Our expert specialty growers can hardly be expected to look to the colleges for much practical instructions on cultural methods—in fact, the relationship might well be reversed in many cases. But it is different when we come to problems that call for scientific research and laboratory investigation, such as plant diseases, insects, soil properties, etc. as they affect any department of plant growing. Here

we should take fuller advantage than has been done thus far of the painstaking work that the agricultural college people are prosecuting and these studious investigators should be consulted and listened to with all the respect due to knowledge so acquired. The American Rose Society seems very much alive of late and the movement under consideration together with the Rose Garden effort and the Rose Annual publication afford cumulative evidence to that effect.

The Late William F. Kasting

Since the publication of our obituary notes on the death of Mr. Kasting, the first week's worth of messages of condolence from sorrowing friends have been received and are being published in the following.

Learning of the sad news of the death of Wm. F. Kasting, I numbered him among my loyal friends, and greatly admired him for his sterling qualities and for his devotion to the Society of American Florists and his City of Buffalo.

The Society loses one of its most active and earnest officers and workers, and the city a devoted and loyal citizen.

To his sorrowing family and friends I send my heartfelt sympathy in their bereavement.

Yours truly,



Oil City, Pa.

It was my privilege to have known the late Mr. Kasting since the Convention during the Pan-American Exposition in Buffalo. There I first became attracted to this robust and sound-principled builder. He was a type that belongs to the new school which adopts for its motive and guide the principle "That if I help to make another prosperous, I will also be prosperous," rather than the principle so prevalent "That if I can make another man poor I will make myself rich." In these times when strong men, real builders are none too plenty in our midst and are greatly needed, his passing away is indeed a great loss to his family, to horticulture and to the community.



New York.

The Topiarian Club Trophy at Harvard

To the Editor,
My dear Sir:

My attention has been called to an editorial in *HORTICULTURE* for April 22, 1916, referring to the award of the Topiarian Club Trophy at our Harvard Graduate School of Landscape Architecture, and I write to correct a two-fold apparent misapprehension on the part of *HORTICULTURE*.

The Topiarian Club adopted its name many years ago, not from any professional sympathy with topiary work, but because it associated the Club with the earliest known name, or at least one of the earliest for the profession. It is misleading certainly, and never to my mind has been altogether fortunate, but a name once adopted for a Club is, as you know, apt to be lasting.

The program of the competition included no reference to the Italian style, but called only for "a very considerable system of formal gardens," and as study had recently been given to the Italian style, and the important principles which it has to teach for formal work in this country had been emphasized I suppose the idea somehow got into print that an Italian garden was called for. This could the more easily happen since in this country many of our best formal gardens are (most unfortunately) called Italian gardens, when they are really American gardens based on general principles common to all good formal work but preeminently well exemplified in the Italian work of the Renaissance. I should personally regret greatly any impression getting about that our instruction at Harvard favors the use of foreign styles of gardening as such in this country, except as an occasional curiosity.

Topiary work, in its strict sense, is of course in no way strongly associated with Italian formal gardens, and is the last sort of thing any one of our students would be likely definitely to plan for.

What our people need most is certainly not a fuller appreciation of sylvan or floral beauty of itself, but a fuller appreciation of the value of *design* and not of planting for itself but of planting as part—as one material—in a garden, or in a landscape composition.

Yours very sincerely,



Chairman School of Landscape
Architecture, Harvard University.

FUNERAL OF WM. F. KASTING.

Throngs of men prominent in all professions and branches of Buffalo's business world gave evidence of their esteem and friendship for the late William F. Kasting, postmaster, by attending the funeral services held at the family home, 700 Ellicott street, Buffalo. For an hour previous to the beginning of the services within the home, Ellicott street was occupied by a steady procession of men and women and children of his neighborhood, with whom Mr. Kasting was a great favorite, all viewing his body and paying silently and tearfully their final tribute.

Five hundred letter carriers and clerks of the post office lined the street in double row, with the mem-

bers of Hugh de Payens Commandery Knights Templar, with the representatives of the Buffalo Orpheus of which society Mr. Kasting had been president and always a leader, the Elks, and the other fraternal organizations with which Mr. Kasting had been affiliated, as the funeral cortege passed, through the host of mourning friends.

The services were simple, consisting of the Masonic ritual, conducted by Queen City Lodge, F. & A. M., and the reading of the 23d and 19th Psalms and the prayers and brief eulogy by the Rev. Christian G. Haas, pastor of St. Paul's Evangelical church. The funeral escort consisted of the Commandery of Knights Templar and Queen City Lodge, F. & A. M. The services at the grave included the prayers and the singing by the Buf-

falo Orpheus of "All Through the Night."

Seldom is expressed grief at the death of a friend in such floral tributes as were included in the hundreds of beautiful pieces sent to the Kasting home. They came from all sections of the country, from the florists' societies, from letter carriers' organizations, from federal and state officials and from hundreds of personal friends. Five motor trucks were required to convey the floral offerings to the cemetery.

The active bearers were: William J. Palmer, S. A. Anderson, J. B. Wise, Charles E. Schoenhut and Joseph Sangster of Buffalo and Charles T. Guenther of Hamburg. The list of honorary bearers included 50 or more men prominent in professions and business and official life in Buffalo.

GETTING READY FOR BAR HARBOR.

All indications point to a record crowd going from Boston with the Sweet Pea Society to Bar Harbor, Me., on Friday evening, July 14. It is expected that those traveling from West and South will converge at Boston and join with the general party leaving Boston for Rockland, Me., on the Bangor steamer at 6 P. M. on that day. Some may prefer to go on Thursday evening. But in either case sleeping accommodations should be engaged in advance for this all-night cruise on the open Atlantic. The Gardeners' & Florists' Club of Boston have secured fifty staterooms and these are at the disposal of applicants as long as they last. Write to W. N. Craig, Sec'y, Faulkner Farm, Brookline, Mass., or apply to the Eastern Steamship Corporation, Bangor Division, Boston.

The harbor of Rockland, Me., is one of the most beautiful in the world and as approached on the steamer in the early morning presents a picture which once seen is never forgotten. Rockland is the gateway to the scenic wonders of Penobscot Bay, one of the grandest and most romantic beauty spots of North America. Here is the starting point for the fleet of smaller steamers which carry the passengers to all points on the Maine coast. Here we transfer to the Mt. Desert steamer and are soon under way. The visitor will find a never-failing interest in the rugged shores, rocky promontories, cliffs and precipices backed by blue hills and clothed in unchanging green. We stop at Vinal Haven, North Haven with its busy little harbor and summer cottages away up on the heights, Stonington with its great granite quarries, Southwest Harbor, Northeast Harbor and Somes Sound—a veritable enchanted land—Seal Harbor, and thence along close to the surf-washed shore with palatial villas perched on the spruce-clad heights above, an ever-changing panorama, and five hours after leaving Rockland the boat swings in to Bar Harbor and here again there is much to see, of which more later on.

The Metropolitan Line express steel steamships, Massachusetts and Bunker Hill, are now using the Cape Cod Canal on their daily trips between New York and Boston. The distance between New York and Boston, around Cape Cod, is 337 miles and via the canal it is 260 miles, the trip between the two cities being thus lessened by 77 miles. The steamers now depart from New York and Boston at 6 P. M. and are scheduled to arrive at either destination at 7.30 A. M. This all-the-way-by-water trip between the two cities has been popular all along and the adoption of the canal adds a new interest to a route which is one of the most fascinating on the Atlantic coast. Should the visitors from New York and southward, bound for the Sweet Pea meeting and exhibition at Bar Harbor, decide upon this mode of travel to Boston, which we strongly recommend, it will be quite essential that stateroom accommodations be secured well in advance as the travel northward is very heavy in July. This plan would give opportunity for a full day in Boston before the departure of the steamer for Rockland at 6 P. M.

Should the weather in the interim be favorable it is expected that the show of sweet peas at Bar Harbor will be by far the finest ever put up on this



MT. DESERT'S RUGGED COAST.

continent. Many entries from a distance are booked and the local contributions will be very extensive. In the peculiar cool and moist sea air of Mt. Desert all garden flowers assume a dazzling brilliancy of color which is not found inland or farther south. Sweet peas and, in fact, all annual flowers as well as hardy perennials in Bar Harbor come closer to substantiating the glowing color descriptions given in the seed catalogues than in any other place we have ever visited.

A CAPE COD NURSERY.

Down at West Barnstable, Mass., with the waters of the Atlantic washing the shores a few miles away on either side of the long sandy arm known as Cape Cod, an interesting demonstration has been going on for the past three years. Here a ninety acre nursery has been established by R. & J. Farquhar & Company, of Boston, for the growing of certain specialties which for one reason or another are not always satisfactorily handled in nurseries having the typical New England climate and environment. The soil is a sandy loam, rich in leaf soil and one of the particular purposes for which it was chosen is the growing of young hybrid rhododendrons. There are many thousands of these under cultivation at present,

and judging from their general vigor and sturdiness they find this location very much to their liking. Quite a large percentage of them are seedlings from crosses made by James Farquhar some years ago, and in the wide variety of form and tint one finds many promising sorts, especially in soft pinks and clarets. A field of ten thousand seedling Rhododendron (*Azalea*) *Kaempferi* is an inspiring sight, the largest plantation of this grand species in existence.

There are lots of rare and new things in the way of conifers from China from the collections of Wilson and others which seem to fairly revel in the pure salubrious air of this region. Looking them over we were particularly impressed with a lot of *Abies recurvata*. It is a beauty. A plantation of twenty thousand young *Lilium auratum* absolutely free from any trace of disease or weakness is perhaps one of the most hopeful features seen on this interesting place, for the establishment of the lily industry here may mean the return of this magnificent species to our gardens. No lily will thrive out of doors for long in rich soil and here they appear to find ideal conditions. The nursery is under the care of James Littlejohn ever since its inception and he has it in admirable condition.

CLUBS AND SOCIETIES

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

At this early date great interest is being shown in the 2nd Annual Convention and Trade Exhibition to be held in Houston, Texas, August 15, 16, 17. It would appear that there will be a very creditable attendance from the East.

Rates and particulars as to the different routes may be obtained by application to this office. One favorable route will be by Southern Pacific Company, via steamer to New Orleans, train to Houston then all rail returning. The best obtainable rate from New York City to Houston by this route would be \$83.00. This rate will include berth and meals on steamer line to New Orleans and first class rail transportation beyond, returning from Houston via St. Louis and New York Central lines. Steamers sail semi-weekly from Pier 48, North River, foot of West Eleventh street, every Wednesday and Saturday, at 12 o'clock noon, and are due in New Orleans the following Monday and Thursday. Connections can here be made for Houston either on the Sunset Limited leaving New Orleans at 11 A. M., which will fetch our party in at Houston at 10 P. M. the same night. This will give a beautiful ride through the Louisiana Sugar and Cotton belt, which is a very scenic route.

If the party desires to stop over at New Orleans for a day or so, connections could be made with train No. 9 leaving at 11.30 P. M., due in Houston next morning at 11.30. Sleeper rates between New Orleans and Houston are \$2.00. Trip if made from New Orleans by daylight could be accommodated in large commodious coach unless party preferred to use parlor cars.

S. S. "Momus" will leave New York Aug. 9th, arriving at New Orleans Monday, Aug. 14th, in the morning; by taking rail service there would arrive at Houston 10 P. M. same night. Any of our members desiring to leave earlier may take the S. S. "Creole," leaving New York August 5th, and arriving New Orleans August 10th. If arrangements for the trip are made promptly we will arrange so that the delegates and visitors will have "the time of their life." Our Southern brethren are making every effort to have this convention one of the most successful in the history of the society not only from a business standpoint, but also from the great amount of pleasure and valuable information derived from our visit to the South.

Some of the leading firms of the country, alert to the opportunity of the southern market, have made early bookings for large blocks of space in the trade exhibit. Among them we find, Lord & Burnham Co., John A. Evans Co., M. Rice Co., A. L. Randall Co., Burlington Willow Ware Works, J. A. Peterson & Sons, and H. C. Doescher. Intending exhibitors should not delay in securing space.

Mother's Day Fund.

Replies are coming in freely to the

Meetings Next Week

Monday, June 26.

Florists and Gardeners' Club of Rhode Island, Swartz Hall, Providence, R. I.
Gardeners and Florists' Club of Baltimore, Florist Exchange Hall, Baltimore, Md.

Tuesday, June 27.

Newport Horticultural Society, Newport, R. I.

Wednesday, June 28.

Oyster Bay Horticultural Society, Oyster Bay, N. Y.
American Association of Nurserymen, Annual Convention, Milwaukee, Wis.

COMING EXHIBITIONS.

June 27-28, Hartford, Conn.—Summer Show of Connecticut Horticultural Society.

June 28-29, Newport, R. I.—Newport Garden Association and Newport Horticultural Society, on the grounds of the Garden Association.

July 1-2, Boston, Mass.—Rose and Strawberry Exhibition, Massachusetts Horticultural Society, Horticultural Hall.

July 14-16, Bar Harbor, Me.—Annual Show of American Sweet Pea Society.

July 20, Worcester, Mass.—Sweet Pea Exhibition, Worcester Horticultural Society.

August 3, Oyster Bay, L. I., N. Y.—Dahlia Show, Oyster Bay Horticultural Society.

August 11-12-13, Boston.—American Gladiolus Society, Horticultural Hall.

August 24, Worcester, Mass.—Gladiolus Exhibition.

Sept. 2-9, Cleveland, Ohio.—Industrial Exhibition and Fair.

Syracuse, N. Y., Sept. 11-16.—New York State Fair.

Sept. 12-13, Providence, R. I.—Rhode Island Horticultural Society, Narragansett Hotel.

appeal sent out by the Secretary for contributions to the testimonial or fund to be presented to Miss Anna Jarvis, Founder of Mother's Day.

The list of donors will be published shortly. Those desiring their names included in this list should make remittance now.

J. J. Hess for Treasurer.

President Daniel MacRorie directs me to say that he has appointed J. J. Hess of Omaha, Nebraska, to serve as Florists and Ornamental Horticulturists to fill out the unexpired term of the late Wm. F. Kasting.

Department of Plant Registration

Public notice is hereby given that as no objection has been filed, the following registration becomes complete, *Freesia Splendida* by Rudolph Fischer, San Gabriel, California.

JOHN YOUNG, Sec'y.

June 16, 1916

The next convention of the Association of American Cemetery Superintendents will be held at Norfolk, Va., on August 22-24 inclusive. J. M. Broughton of Norfolk is chairman of the local committee of arrangements. Bellett Lawson, who has been secretary-treasurer for six years, announces that he will not be a candidate for re-election.

LANCASTER COUNTY FLORISTS' CLUB.

The exhibition table had a fair display of peonies from Mr. B. H. Farr, of Wyomissing, and B. F. Barr, the essayist of the evening. Mr. Barr's paper was both encyclopedic and cultural and was well received and a vote of thanks was extended. In the discussion it was brought out that the period of peony flowering could be advanced by using an application of nitrate of soda every three or four days. They can be held in cold storage by cutting them only partially open, putting them into water in a temperature of about 45° for some 24 hours and then packing into boxes or better in jars of wet moss with the heads wrapped in tissue paper. In a temperature of 30° to 35° it is claimed they can be held for from two to fourteen days. It was also brought out that a peony should not be expected to give full results until at least three years after it has been planted. Mr. Barr claimed that the variety Gen. Washington is the nearest to red in existence today.

Albatre, Gen. Washington, Bernard Pallissy, Asa Gray, Madame Baquet, Coronne d'Or, Wilhelmena, Festiva Maxima, Eugene Verdier, Princess Beatrice, Marie Lemoine and Souv. de Exposition Universal, were among the varieties shown.

The Flower Show Committee now stands Harry K. Rohrer, chairman, M. J. Brinton, A. F. Strickler, Elmer Weaver, Lemon Landis, David Rose, Rudolph Nagle and B. F. Barr. The Picnic Committee reported no date fixed, but B. F. Barr's meadow as the place. Any out-of-town florists who wish to attend will be welcome and can get full information by applying to the chairman, Mr. Elmer Weaver, Ronks, Pa. The Programme Committee suggested that the August meeting be made an Aster meeting at the establishment of Elmer and Charles Weaver. There is a possibility of the Club taking up the planting of a Rose Garden in one of our local parks.

The appeal for contributions to the Miss Jarvis fund was carried over for a special voluntary contribution from the members at the picnic and the meeting at Weaver's so that we could turn in a tidy sum as a Club.

ALBERT M. HERR.

LENOX HORTICULTURAL SOCIETY.

There was a good attendance at the monthly meeting on June 14th. An alteration in the schedule of forthcoming show was adopted, which made class 40 read any bi-color in place of any marbled or mottled. A paper entitled "Horticulture as a Profession from the Standpoint of the Gardener" was read and well discussed. Notwithstanding an early date and a very late season, there is every promise of a good show on June 28th and 29th. The Garden Club of America is making this the occasion of their visit to Lenox. Many valuable cups and prizes are offered for sweet peas, etc., and a special

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THE LARGEST HORTICULTURAL AUCTION ROOMS IN THE WORLD

Sales Every Tuesday and Friday at 11 o'clock A. M.

feature will be a non-competitive display of orchids from Mr. A. N. Cooley of Pittsfield. A large floor space has been reserved for this exhibit, and those who saw Mr. Cooley's display at the last Fall Show and his 1st prize group at the New York Spring Show should make a point of seeing this display.

Mr. Cooley is constantly adding many new and rare varieties to his already extensive collection, and if not already so, it will not be long before it will take its place beside any private collection in the country. The next meeting will be held July 12th.

J. H. FRAMPTON, Asst. Sec'y.

NASSAU COUNTY HORTICULTURAL SOCIETY.

Regular meeting, Glen Cove, N. Y., on Wednesday evening, June 14. 1st prize to Harry Goodband for flowering shrubs and to James McCarthy for peas. The Executive Committee was instructed to make full arrangements for a sweet pea show in July.

James De Vyner, entomologist of Mount Vernon, gave a lecture on "The Hickory Bark Beetle and the Means of Controlling Same." The lecture was full of practical information. Mr. De Vyner exhibited some hickory wood that had been infested with the beetle and also specimens of the insect in its various stages, from the larva to the adult. At the conclusion of the lecture, the lecturer was questioned at considerable length. An essay received from the National Association of Gardeners on "Culture of Hardy Perennials," was read and was most favorably received.

JAMES MCCARTHY, Cor. Sec'y.

MASSACHUSETTS HORTICULTURAL SOCIETY.

Important Notice.

On account of the lateness of the season the Rose and Strawberry Exhibition of the Massachusetts Horticultural Society scheduled for June 24 and 25 will be postponed to Saturday and Sunday, July 1 and 2.

W. P. RICH, Sec'y.

Horticultural Hall, Boston.

PENNSYLVANIA HORTICULTURAL SOCIETY.

The Sweet Pea Exhibition of this Society will be held in the Jenkintown Club and Reading Room, Jenkintown, Pa., Thursday and Friday, June 29th and 30th, 1916. The exhibition will be open June 29th, 3 to 10 P. M., June 30th, 10 A. M. to 10 P. M. All Willow Grove trolleys on York Road pass the Exhibition Hall. Get out of car when conductor calls out Jenkintown.

DAVID RUST, Sec'y.

The Horticultural Society of New York will hold an exhibition of roses, sweet peas, herbaceous border flowers, roses, etc., on June 24 and 25, in the Museum Building of the New York Botanical Garden.

AMERICAN PEONY SOCIETY.

The exhibition of peonies in connection with the annual meeting in New York last week was not so large as would have been the case had the local plants been seasonably in bloom. Again, the heavy rains and general wetness for several days had impaired the quality of the blooms that were out. There was a generous showing of irises, outdoor roses and perennial border plants which added greatly to the popular interest and value of the exhibition. The prize awards were as follows:

Open Classes.

Collection of not less than 100 named



J. J. HESS.

Newly Appointed Treasurer, Society of American Florists.

varieties—Gold medal and 1st prize, Bertrand H. Farr, Wyomissing, Pa.

Vase or basket of Peonies, arranged for effect—1st, Cottage Gardens Co.; 2d, B. H. Farr.

Twenty-five double, 3 blooms each—1st, George H. Peterson, Fair Lawn, N. J.; 2d, Cottage Gardens Co.; 3d, B. H. Farr.

Collection Japanese varieties—B. H. Farr. Twenty-five white or cream, double—1st, S. G. Harris, Tarrytown, N. Y.; 2d, S. G. Harris; 3d, B. H. Farr.

Twenty-five light pink—1st, B. H. Farr; 2d, Cottage Gardens Co.; 3d, G. H. Peterson.

Twenty-five dark pink—1st, Cottage Gardens Co.; 2d, S. G. Harris; 3d, B. H. Farr.

Twenty-five red or crimson—1st, Cottage Gardens Co.; 2d, B. H. Farr.

Six specimen blooms—1st, G. H. Peterson; 2d, S. G. Harris.

One specimen double—1st, B. H. Farr; 2d, G. H. Peterson; 3d, S. G. Harris.

Amateur Classes.

Largest and best collection—Silver medal and 1st prize, James Boyd, Haverford, Pa. Ten varieties, double, three blooms each—A. L. Gifford, N. Y.

Collection of single and Japanese varieties—2d, A. P. Saunders, Clinton, N. Y.

Collection of white varieties, double—2d, A. L. Gifford. Light pink—1st, James Boyd; 2d, A. L. Gifford. Dark pink—A. L.

Gifford. Red or crimson varieties—2d, A. L. Gifford.

Other winners in the amateur classes were: A. H. Scott, Oak Lane, Pa.; L. R. Bonnewitz, Van Wert, O.; Mrs. H. K. Taylor, Ogontz, Pa.; L. J. Gorman, Van Wert, O.

Prominent exhibitors of hardy perennials were Bobbink & Atkins, Cottage Gardens Co.; John Lewis Childs and A. P. Saunders.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

Tuesday evening, June 20th, last regular meeting of this club for the season was devoted to entertaining the ladies as per annual custom, so very little business was transacted. The secretary read his minutes and some communications relative to the visit to Cromwell, Conn., by the N. A. G. on June 21 and the trip to Bar Harbor on July 14. July 27 was announced as the date for the annual picnic, the place, Cunningham Park. The secretary was instructed to send a letter of good cheer to Mrs. E. M. Gill who is ill. Then the entertainers were called into service and there was an hour of music and song, followed by a collation served in the large exhibition hall and then the youth and beauty of Boston horticulture danced and danced until midnight.

The entertainment was high quality throughout and every number was given an encore. Particularly acceptable were the songs of Miss Emily Edgar, daughter of Mrs. W. W. Edgar of Waverley and the violin solos by Master Duguid, son of John Duguid of Wellesley.

CLUB AND SOCIETY NOTES.

The New England Cemetery Association had their annual outing at Bellevue Cemetery, Lawrence, Mass., on Wednesday, June 19. It was a most enjoyable affair. Superintendent William Lord was manager of arrangements.

The Premium List for the Southampton (N. Y.) Horticultural Society's tenth annual exhibition has been sent out. It is quite lengthy, including some interesting special prizes for artistic work and decorative use of flowers, and should bring out a fine display. The dates are July 26 and 27, and one-half of the net proceeds are to go to the Southampton Hospital.

The Board of Directors of the Vegetable Growers' Association met in Chicago on June 15th, and accepted the invitation to hold their annual meeting this fall in that city. The board consists of N. J. Reutenik, Cleveland, O., pres.; S. W. Severance, Louisville, Ky., sec'y; Prof. C. W. Wade of the Michigan Agricultural College and Prof. Durst of Illinois Agricultural College, Champaign, Ill., directors.

HOW TO GET THE BETTER OF ROSE DISEASES

When the Editor of the 1916 American Rose Annual was putting together material for that volume he discovered that there had never been made in America an orderly study of the diseases of roses. It was found that even the up-to-date Bailey Standard Encyclopedia of Roses in its second volume (1914) listed but one other rose disease than the familiar mildew, and that the other books and the rose catalogues either skipped the subject or glossed it over.

Knowing how serious to rose-growers was at least one of these diseases—the all-too-familiar “black spot,” the editor then canvassed the various colleges and experiment stations, and the Department of Agriculture at Washington, only to learn that the rose had never had the attention given to carnations or cabbage or cut-worms, to apples or potatoes. Prof. H. H. Whetzel, the noted pathologist of Cornell University, wrote that none of his brethren had ever studied the diseases of what he termed “man’s oldest and most widely cherished ornamental,” and that therefore no means of control of some of these destructive rose diseases had been worked out.

The American Rose Society believes that this condition is a disgrace. It has therefore undertaken to organize a careful inquiry into rose diseases, which if supported by those interested ought to result in the proposal of methods of prevention and control as efficacious as those that, through similar study, have given fruit-growers courage to proceed profitably in defiance of brownrot and similar diseases.

Much correspondence, following authorization at the recent Washington meeting of the Society, has developed an exceptional opportunity to have the proper study begun and carried through at a small part of the expense—Cornell University sustaining most of the cost.

Professor Whetzel states the situation thus:

“What is needed first is a rather careful study of the rose disease situation as represented in the gardens and houses of the members of the American Rose Society . . . a survey, in order that we may determine just what the chief diseases of the rose are. . . . We propose that Mr. Massey, who has worked on florists’ crops, and who is, in my opinion, the man for this job, should be employed by the American Rose Society under my direction, to spend three months of each year for two years in rose disease survey and investigation work, traveling as may be required; and that during the remaining nine months of each year his special line of investigation with us would be the diseases of roses. That is, if the American Rose Society can support him while in the field one-fourth of the time, the Cornell Department of Plant Pathology will have him make rose disease investigations the chief line of his work as florist disease investigator for the remainder of two years.

“We would provide such ordinary laboratory apparatus as he may need, and also give him professional aid and counsel, together with our hearty interest in the Rose Society’s activities.

“This would give the American Rose Society the services of a thoroughly trained investigator of florist crop diseases at a

cost, say, in comparison with that required to finance the work independently.

“The cost would not exceed \$1,000 each year, plus a two-year arrangement of which some \$400 the first year and \$, at the second year would be for traveling and other special expenses.

“If the American Rose Society desires to avail itself of this opportunity, I must know of it before June 30, 1916, in order to properly arrange with Mr. Massey.”

It is the belief of the Executive Committee of the American Rose Society that the opportunity thus presented is one which rose-growers generally will be willing to support by the special contribution necessary, information as to which must reach your President, as noted, before June 30. Let us act together to help put rose-growing in as safe a condition as is carnation-growing or apple-growing.

S. S. PENNOCK,
President.

Philadelphia, Pa.

AUTHORS ATTENDED PEONY EXHIBIT.

A thousand invitations were sent out for the annual exhibition of peonies in the gardens of the Country Life Press (Doubleday, Page & Co.) at Garden City, L. I. The peony display, is composed of more than three thousand plants collected by the American Peony Society, and this year from forty thousand to fifty thousand blossoms were on view during the week June twelfth to seventeenth. The public, at all times welcome to Country Life Press, is always especially welcome during the season of peony bloom and during the subsequent season of rose bloom, for at that time the gardens are perhaps at their best.

On Thursday, June fifteenth, Doubleday, Page & Co., gave a Garden Party to authors and others of their friends who cared to take advantage of this opportunity to see the gardens and the motion picture film of the making of a book.

ONE WEEK'S IMPORTS.

Imports at the port of New York of horticultural material, for the week ending June 9th, were recorded as follows:

Bulbs—Netherlands, \$22; England, \$42; Hongkong, \$1,045.

Plants—Belgium, \$2,525; France, \$93; Netherlands \$60; England, \$172; Scotland, \$7; Bermuda, \$19; Mexico, \$75; Brazil, \$2,349; Venezuela, \$866.

Red Clover Seed—France, \$14,048.

Clover Seed—Canada, \$286; New Zealand, \$318.

Grass Seed—France, \$1,664; Scotland, \$62; Argentine, \$2,088.

All other seeds—France, \$14,879; Netherlands, \$3,385; England, \$9,904; Scotland, \$47; Argentine, \$8,696; Hongkong, \$335; Malta, \$3,893.

Nitrate of Potash—England, \$112,515.

Other fertilizers—Scotland, \$85.

Guano—England, \$97.

PEONY SHOW OF MASSACHUSETTS HORTICULTURAL SOCIETY.

This brilliant June spectacle struck a very bad weather combination this year. After having been postponed for one week on account of the backward season the dates finally selected, June 17 and 18, proved entirely too early for the local growers, the best they could do being the earlier blooming varieties. Then to add to the disappointment the opening day was the tenth and worst of a series of ten days of rain. Yet, with all these drawbacks, the exhibition was a big one and turned the hall into a gorgeous sight and as if to atone for Saturday's downpour the weather man handed out an ideal day for Sunday, with a throng of visitors in attendance.

The irises, oriental poppies, hemerocallis and other herbaceous flowers far outshone the peonies, as it happened.

In the herbaceous peony classes, G. H. Peterson of Fairlawn, N. J., got the lion's share of the 1st prizes, taking six of these. Other winners in the peony classes were: Mrs. J. L. Gardner, A. H. Fewkes, S. G. Harris, Geo. N. Smith and Mrs. C. S. Minot. The iris prizes were won by E. M. Dunphe and H. F. Chase; the rhododendron prizes by T. C. Thurlow's Sons Co., Weld Garden and W. C. Winter; the hardy herbaceous flower prizes by Weld Garden and Blue Hill Nurseries.

Silver medals were awarded to R. & J. Farquhar & Co., for a grand display of hardy herbaceous flowers and shrubs and Miss Grace Sturtevant for new seedling iris. Honorable mention was accorded to Ernest B. Dane, gard. D. McKenzie, for display of orchid blooms; Mount Desert Nurseries, for artistically arranged group of hardy flowers; Blue Hill Nurseries, for vase of *Thalictrum aquilegifolium purpureum*; Miss Grace Sturtevant, for iris Ann Leslie (Dr. Bernice seedling). A first class certificate of merit was given to Miss Grace Sturtevant, for iris Stanley H. White (Hector \times Caterina).

Gratuities—A. H. Fewkes, Paeonia Mme. Calot; Mrs. J. L. Gardner, Paeonia magnifica; Wellesley Nurseries, collection of peonies and iris; R. & J. Farquhar & Co., display of iris; J. K. Alexander, collection of iris; Blue Hill Nurseries, collection of day lilies and iris; R. & J. Farquhar & Co., collection of fuchsias; Ernest B. Dane, orchid blooms; J. T. Butterworth, orchids in bloom; Mount Desert Nurseries, artistically arranged group of hardy flowers; Miss Cornelia Warren, collection of hardy flowers.

The display by Mount Desert Nurseries was quite novel and a pleasing departure from the massed groups of promiscuous material usually seen. Each variety—such as dicentra, Solomon's seal, lilacs, eremuruses, irises and hemerocallis was shown by itself in a branching bamboo stand, producing a graceful fountain-like effect. The exhibit of Blue Hill Nurseries was particularly praiseworthy for its complete and legible labelling, the collection of hemerocallis being very complete and the finest variety being the bright pure orange Dr. Regel. *Thalictrum aquilegifolium purpureum*, a chance seedling is a lovely novelty with dark red stems and a cloud of soft purple bloom. *Incarvillea brevipes* was another fine thing in this collection.

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ASIATICUS. S. violet-blue; F. deep purple-blue.

BOCCAGE. S. soft lavender; F. maroon and veined maroon on a white ground.

BRONZE BEAUTY. S. sulphury-bronze; F. claret shading to light lavender, orange beard.

COMTE DE ST. CLAIR. S. pale blue; F. deep violet, striped and margined white.

EDITH. S. porcelain-blue; F. veined dark blue on a white ground.

ELIZABETH. S. pale blue, passing to grey; F. soft lilac-blue.

FLORENTINA PURPUREA. S. violet; F. purple.

FLORENTINA ALBA. (Queen Emma.) S. and F. soft shade of grey.

GARRICK. S. pale lavender; F. deep lavender.

GRACCHUS. S. pure yellow; F. crimson reticulated white.

HONORABLE. S. golden yellow; F. rich mahogany-brown.

INNOCENZA. S. ivory-white; F. white.

striped maroon at base; beard golden.

JOHAN DE WITT. (Spectabilis.) S. light lilac-blue; F. purple.

KING EDWARD VII. (Plumeri.) S. soft rosy-lilac; F. crimson.

MADAME CHEREAU. S. and F. white, frilled azure blue.

MISS MAGGIE. (Hermoine.) S. silvery-lavender; F. suffused soft rose.

MORPHEUS. S. French grey; F. reticulated royal purple on a white ground.

MRS. H. DARWIN. S. pure white; F. white, slightly reticulated violet at base.

PANCHREA. S. bronze; F. white, striped crimson.

PRESIDENT CARNOT. S. light blue; F. deep violet.

SAMBUCINA BEETHOVEN. S. rosy-lilac; F. purple with orange crest.

SPARTA. S. bronze-yellow; F. maroon margined old gold.

VAN GEERTIL. S. bronze shaded lavender; F. very dark purple, veined white.

In the descriptions (S) is used to signify standards; (F) falls.

Prices of all the above varieties \$6.00 per 100; \$50.00 per 1000. September Delivery.

PALLIDA DALMATICA—the finest pale blue Iris of the Germanica group. Price, \$12.00 per 100; \$100.00 per 1000. September delivery.

R. & J. FARQUHAR & CO., Boston, Mass.

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SEEDS for the FLORIST

ASTERS QUEEN of the MARKET.

The best extra early variety, large, double flowers, on long stems, in colors: Crimson, Dark Blue, Light Blue, Rose Peach Blossom, White.

Trade Packet, 20c., Oz., 75c.

Sweet Peas, Cyclamen, Primulas, Lily of the Valley, from Our Own Cold Storage Plant.

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HOUSE**

518 Market Street, PHILADELPHIA, PA.

My new Price List of

WINTER-ORCHID-FLOWERING SWEET PEA SEED

Has been mailed. If you have not received a copy, send me postal. Part of new crop will be ready early in July.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

KEYSTONE SNAPDRAGON

Best Winter flowering Pink Snapdragon on the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

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Extra Selected Stock. Gladiolus for forcing. Nanus, Colvill or large flowering type. Greenhouse Fertilisers. Ask for 1916 Seed Catalogue.

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Various Choice Mixed
Varieties

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FORGING GLADIOLUS

All First Size Bulbs

	100	1000
America, pink	\$1.25	\$10.00
Augusta, white	1.35	11.00
Brenchleyensis, red	1.25	10.00
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Transfer Your Orders to

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Orders for New York. Write or Phone to

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Deliver orders from any part of the country to
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HARRY L. RANDALL, Proprietor.

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Of Interest to Retail Florists**NEW FLOWER STORES.**

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FIRST successor to Joe Losman

Pittsburgh, Pa. - Liberty Flower
Shop, Frankstown and Penn. Avenue

Hartford, Ct. - McManis Flower
Shop, 525 Ashmun Street, July 1 suc-
ceeding Bon Ton Flower Shop

NEW CORPORATIONS.

St. Louis, Mo. - St. Louis Cut Flow-
er Co., capital stock \$20,000. Incor-
porators, D. S. Geddy, J. J. Beneke
and F. P. Maid.

St. Louis, Mo. - Natural Foliage
Co., capital stock, \$4,000. Incorpo-
rators, James H. Reeves, Clarence
Waterman and Leland A. Wind.

Wilmington, Del. - W. B. Davis
Greenhouse Co., fruit and shade trees,
capital stock, \$200,000. Incorpo-
rators, Herbert E. Latter, Norman P.
Cohn and C. L. Rindlinger.

NEWS NOTES.

Oxford, N. H. - An elaborate garden
is to be laid out here for A. G. Fay
of Chicago.

Hightstown, N. J. - John B. Braun
has bought the William Peer green-
houses and three acres of land.

Homer, Ill. - The Addison Clutter
greenhouse has been purchased by
James Link, who is removing it to
his own property.

Emaus, Pa. - Eugene S. Weaver has
purchased the Mountaineer Green-
houses which have been idle for the
past two years and has commenced to
operate same.

Richmond, Va. - Fritz Siddering
has bought the stock and fixtures
of the bankrupt firm of Ratcliffe &
Tanner Floral Co. and will make ad-
ditions and improvements.

Stratford, Pa. - A. M. Campbell has
purchased the real estate, green-
houses, all stock, good will, etc., of
the property known as Stratford Flower
Farms from E. A. Stroud, and will
take possession on July 1.

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Jinn The Florist?
4 Park St., Boston, Mass.

Because Satisfaction
Is Guaranteed

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Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good
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WASHINGTON, D. C.

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At your service to deliver Flowers
or Designs on Order by Tele-
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Reliable Service.

GEORGE H. COOKE

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FLORISTS**

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The largest cut flower store in America.
Orders for the TWIN CITIES and for all
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Deliveries to Steamers and all Eastern Ports

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Will take good care of your orders
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F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
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and State of Ohio
Complete Stock. Regular discount to Trade.
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Flowers of Every Kind in Season

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ANDERSON service means fresh, sturdy
Stock and prompt deliveries in **BUFFALO,**
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here given will be promptly and prop-
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Albany, N. Y.—William C. Gloeckner, 97 State St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont St.
Boston—Zinn the Florist, 4 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th St.
Cleveland, O.—The Smith & Feters Co., 735 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.
Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.
New London, Conn.—Reuter's.
New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th St.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schilling, 22 W. 59th St.
New York—G. E. M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 48th St.
New York—A. T. Bunyard, 413 Madison Ave., at 48th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
Rochester, N. Y.—Salter Bros., 38 Main St., West.
San Francisco—Pellicano, Rossi & Co., 123 Kearny St.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pier-son Co.
Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke, Connecticut Ave. and L St.
Westerly, R. I.—Reuter's.
Worcester, Mass.—H. F. A. Lange.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

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Member of Florists' Telegraph Delivery

124 Tremont St., **BOSTON**

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We cover the territory between
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Delivered on mail or telegraph order for
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ALBANY, N. Y.

EYRES
Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER
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FLORISTS NEW YORK and WASHINGTON

Announce the removal of their New York store to

505 MADISON AVENUE, AT 52d STREET

WASHINGTON, D. C.
15th and H Streets

Floral and Landscape Work

NEW YORK—Waldorf-Astoria
and 505 Madison Ave.

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

Fred Lautenschlager is planning on the Houston trip for there are always florists who seem to be lying in wait for him at the conventions with orders in their pockets.

John J. Stuppy of St. Joseph, Mo., and family, are in Chicago. Mr. Stuppy is on his way East and Mrs. Stuppy and children will visit relatives here during his absence.

The new gladiolus Myrtle, now on exhibition at E. C. Amling's is of a very attractive clear pink. It is grown by A. P. Bonvallet, Wichert, Ill., who expects to introduce it later.

Those who attended the funeral of W. F. Kasting from Chicago were George Asmus, Wm. J. Keimel, M. Barker and A. Ringler. Mr. Kasting was to have visited Chicago on his way home from St. Louis.

The store vacated by Lyon & Healy at Wabash avenue and Adams street is being divided into small stores and several florists are reputed to have signed leases. No one has been found who is willing to admit it at this time but it will probably house a flower store in the near future.

One of our enterprising nurserymen arranged with a department store a large exhibition of named peony blooms, for the ostensible purpose of giving pleasure and instruction. Both parties concerned are willing to take the sales that are sure to follow. This is a practical way of creating love for the big flowers and selling the plants and it is to be hoped more "commercial exhibits" will follow.

The John C. Moninger Co. is receiving some very gratifying letters from The Miller Floral Co., whose three steel houses they have just completed

at Farmington, Utah, and Stephen Hyde, Carthage, Mo., who has received material for a house 84 by 600 in fine order. Their greenhouses being erected for Montgomery Bros., at Hadley, Mass., and for Van Allen at Newport, are progressing, and another eastern order just placed is for Russell Bros., Inc., of Syracuse, N. Y., calling for four houses, 21 by 125. Rudolph Kurowski says Houston is too far away for the Moninger Co. to send one of their model greenhouses but the firm will probably be represented there.

ST. LOUIS.

The florists of St. Louis received a great shock on Thursday, June 15th, with the announcement of the sudden death of Wm. F. Kasting. Mr. Kasting arrived here on Monday, June 12th, as a delegate from New York to the Democratic Convention. He paid visits to his friends in the trade on Wednesday in company with J. J. Beneke, Secretary of the Florist Club, visited the wholesale district and was apparently in good health and arranged an automobile trip to visit the trade on Thursday morning. That evening he took suddenly sick with heart trouble at the Maryland Hotel and died there on Thursday morning at 10.30. His remains were taken in charge of by his brother-in-law, Mr. La Tour, who came with Mr. Kasting and left for Buffalo that night. The Florist Club and the five wholesale houses wired floral emblems to be sent to the funeral.

CINCINNATI.

Chas. A. Moss, who was formerly in the Cincinnati Park Department under Reuben Warder and is now located at Spartansburg, S. C., was in this city recently.

Gus Adrian, Jr., and Miss Cora Pherson were married on the 17th. The first their family and friends knew of the marriage was the following day when they were leaving for the Cheaux Islands to spend their honeymoon at that place.

PITTSBURGH.

George McCallum and C. C. Phillips are planning for a two-weeks' fishing trip next month on the Cheat River, West Virginia.

Mr. and Mrs. E. H. McGrath left on Thursday to spend a week in Chicago, where Mr. McGrath, who is manager of the Blind Floral Co. has business interests.

Mr. and Mrs. William A. Clarke and Mrs. E. A. Williams were members of the Pittsburgh party which left on last week to attend the Knights Templar conclave in Los Angeles.

The Ludwig Floral Company sent an unusual floral tribute for the funeral of William F. Kasting. The piece was designed of white carnations in envelope form with the postmark, stamp and address in immortelles.

The advantages of featuring floral decorations is being more and more recognized by commercial firms. Last week the Joseph Home Co. observed its 2nd two-days' rose fete. Exquisite long-stemmed Beauties and Rambler Roses were used in tall wicker standards and festoons overhead with charming effect. The Kauffmann Co. initiated their 45th anniversary with the window adorned entirely with foliage plants and peonies. Ray J. Daschbach, manager of the floral department supervised the work of course.

Randolph & McClements were the floral decorators for a wedding which was the most picturesque event of its kind hereabouts. The church decorations were foliage plants, ferns and pink hydrangeas. White wicker standards surmounted by baskets of white peonies, with loops of rose satin ribbon marked the aisles. Ophelia roses, white orchids and orange blossoms formed the bridal bouquet. Large garden hats

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SAN FRANCISCO
CALIFORNIA
Pelicano, Rossi & Co.
129 KEARNY ST.

HIGH GRADE PLANTS
For Retail Stores a Specialty

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THOMAS ROLAND, Nahant, Mass.

PROFITS PROFITS PROFITS

"HERE COMES THE BRIDE"

There's Money in June Weddings and June Graduations and Commencement Days for the Florist **WHO KNOWS HOW TO PLEASE.**

We can supply you with strictly up-to-date accessories, which you **must** have if you want to give satisfaction. Stock up now and have the goods to show customers. Send for prices and you will be astonished to see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

1129 Arch Street, PHILADELPHIA, PA.

overflowing with Dorothy Perkins roses were carried by the matron of honor and bridesmaids. The bridal table on the lawn enclosed the fountain in which bloomed water lilies, the table centerpiece being formed of pink hydrangeas. The other tables on the terraces held baskets of roses in combination with pink and white snapdragon and larkspur. The entire grounds were enclosed with a vine-covered lattice.

WASHINGTON, D. C.

The July meeting of the Florists' Club has been postponed from July 4 to July 11, because of the holiday. William H. Ernest, chairman of the outing committee, will render a full report on the plans for the field day at Great Falls on July 19.

Mrs. M. J. McCabe, who is associated with her husband in the florist business in Anacostia, D. C., and who is in charge of their retail stand in the Center Market, has gone to Miami, Fla. Mrs. McCabe has not been in very good health, and her doctor has ordered a change of scene.

The blue laws which have long reposed on the statute books of Virginia are being rigidly enforced. Under the laws all unnecessary work on Sundays is prohibited. This means that deliveries of flowers cannot be made by florists here or in the state named without liability to arrest for violations.

William F. Gude was decidedly in the limelight last week when, with President Wilson, he was one of the central figures in the Preparedness Parade which caused the turning out of 60,000 people. It was a great day for Washington and in its honor all work was stopped. The florists closed their es-



FLAG DAY PARADE JUNE 14, WASHINGTON, D. C.

tablishments and only did that which would not hold over until the next day. There were more than two hundred in the company which carried the pennants of the Florists' Club of Washington, D. C. Each parader carried a flag and, in addition, each florist carried an American Beauty rose. The pennants were decorated with flowers. The committee had but a short time in which to get the florists together, but the representation was a good one and all who participated were well pleased.

BOSTON.

R. E. Lassman of Waverley is retiring from business after many years of active participation in the florist trade. His greenhouses are now for sale.

Michael H. Norton has been confined to his home in Dorchester for the past ten days, suffering from a slight impairment of his usual good health. He is progressing satisfac-

torily and hopes to be out again in a short time.

Henry M. Robinson, Charles Robinson and William Penn were the guests of M. C. Lincoln over the holiday at the latter's Laconia, N. H., residence. Ostensibly, the party went to fish, but the results were far from satisfactory, both to those concerned and those who must listen to their reminiscent tale of woe.

The Florists' Bowling League will hold their annual picnic at Lake Boone, Hudson, Mass., on Sunday, June 25. A ball game and other athletic events, including a fat man's race, will be in order. J. Sloane is chairman of the executive committee, and those desiring to enjoy next Sunday as only florists can, will please communicate with him. The entire body will leave the flower market in autos at 9 A. M. sharp and will not return till late in the evening.

A Florist's
Necessity

HART'S HANDY HANDLE

Fits securely on any standard pot and by the use of a little chif-fon or ribbon gives you a Basket effect at a very small additional expense, increasing the price of your plants 100 per cent.

1	12 inches high, \$2.50 per doz.	4	24 inches high, \$5.00 per doz.
2	15 " " 3.50 " "	5	30 " " 6.50 " "
3	18 " " 4.00 " "	6	36 " " 9.00 " "

At Your Dealer's or Direct.

GEO. B. HART, Manufacturer, 24 to 30 Stone Street, Rochester, N. Y.

CUT FLOWERS

That ship well and give satisfaction to you

EASTER LILIES, \$10 per 100

VALLEY, \$5 per 100

PEONIES, \$4-\$6 per 100

Business Hours 7 A. M. to 5 P. M.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

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DAVID WELCH

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FLORISTS' SUPPLIES

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Tel. Fort Hill 1904-1905

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER Florists' Supplies

122 West 25th St., New York

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

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MICHIGAN CUT FLOWER EXCHANGE, Inc.

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Plantsmen and Florists

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POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from
leading growers

Full line of Florists'
Supplies

Write for quotations before
ordering elsewhere

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Telephone, Main 6267-6268

BOSTON, MASS.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON June 22		ST. LOUIS June 12		PHILA. June 19	
Roses						
Am. Beauty, Special	15.00	to 25.00	15.00	to 25.00	20.00	to 25.00
" " Fancy and Extra	10.00	to 15.00	6.00	to 10.00	10.00	to 20.00
" " No. 1	1.00	to 6.00	1.00	to 5.00	3.00	to 8.00
Russell, Hadley	2.00	to 12.00	5.00	to 12.00	3.00	to 20.00
Killarney, Richmond, Hillingdon, Ward, Extra	5.00	to 6.00	4.00	to 6.00	5.00	to 8.00
" " Ordinary	1.00	to 4.00	2.00	to 3.00	1.00	to 4.00
Arenburg, Radiance, Taft, Key, Extra	6.00	to 8.00	.....	.....	5.00	to 8.00
" " Ordinary	1.00	to 4.00	.....	.....	1.00	to 4.00
Ophelia, Mock, Sunburst, Extra	6.00	to 8.00	6.00	to 8.00	5.00	to 10.00
" " Ordinary	1.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Carnations, Fancy	1.50	to 2.00	2.00	to 3.00	1.50	to 2.00
" " Ordinary	.50	to 1.00	.75	to 1.00	.50	to 1.00
Cattleyas	20.00	to 25.00	30.00	to 40.00	35.00	to 50.00
Dendrobium formosum	.....	to 35.00	.....	.....	.....	to 50.00
Lilies	4.00	to 6.00	4.00	to 5.00	8.00	to 10.00
Lily of the Valley	4.00	to 6.00	3.00	to 4.00	2.00	to 5.00
Daisies	1.00	to 2.00	.25	to .35	.50	to 1.00
Mignonette	1.00	to 2.00	3.00	to 4.00	.....	to
Snapdragon	3.00	to 6.00	3.00	to 4.00	1.00	to 3.00
Peonies	2.00	to 6.00	4.00	to 6.00	1.00	to 3.00
Gladioli	2.00	to 4.00	4.00	to 6.00	2.00	to 6.00
Calendulas	1.00	to 2.00	2.00	to 3.00	.....	to
Stocks	1.00	to 2.00	2.00	to 4.00	.....	to
Sweet Peas	.50	to 1.00	1.00	to 1.50	.25	to .75
Gardenias	20.00	to 25.00	10.00	to 20.00	4.00	to 6.00
Adiantum	.....	to 1.00	1.00	to 1.25	.....	to 1.00
Smilax	12.00	to 15.00	15.00	to 20.00	20.00	to 25.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	25.00	to 35.00	25.00	to 50.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

383-387 ELLICOTT ST. - -

BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER OF

CUT FLOWERS

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

In writing to Advertisers kindly mention Horticulture

Flower Market Reports

A careful review of market conditions during the past week will show that over seventy-five per cent. of the business is going through the regular June channels, viz., weddings, receptions, etc. These affairs have been very numerous in Boston during the past month and evidently reached their climax this week, as both retailers and wholesalers report a steady volume of business. Roses, Hadley and Ophelia especially, top the market as regards preference, and lily of the valley breaks all previous records for prices, bringing \$8.00 a hundred. The dull weather greatly shortened up the supply of this flower and curtailed the receipts of carnations in a marked degree. In the latter case it was perhaps fortunate, as there is practically no demand for carnations. Snapdragon is of excellent quality, but is moving slowly. Feverfew, as well, is stationary. Calendulas can be said to be lying dormant. Lilies are doing fairly well for this season and the same is true of sweet peas. Taken on the whole, the market is in a fair condition, with no troublesome surpluses to contend with and a strong, steady outlook for the coming week.

The market has been **BUFFALO** congested all the past week and the outlet blocked. Carnations were overplentiful and the height of the home-grown peonies was on. There was also a heavy supply of roses, lilies, sweet peas and out-door material. Saturday is usually looked for as a clean-up day, but the wholesalers were disappointed with the outcome. There were bargain signs galore amongst the merchants, though this helped but little. Floral work was lightly scattered.

A fairly steady demand **CHICAGO** uses up the greater part of the best grades of stock. There is a large quantity of inferior stock being cut now and what cannot be moved in the flower stores is apt to be seen at the street corners, where the customer is generally charged all that the flowers are worth. Cool weather has been favorable to producing plenty of the best grades of roses so commencement and weddings have been well taken care of. The American Beauty troubles are of the past with some of the large growers, for they are cutting daily some extra fine roses. Mrs. Russell rose is here in great quantities, medium and short stems predominating, of splendid color and the demand is good for June. Sweet pea growers, for the time, are cutting very few good flowers. Their soft condition has impaired their keeping qualities and there is not enough good stock in the market to fill orders. Carnations have not suffered with the temperature. There are plenty to be had but the demand for the divine flower is limited. Peony season is shortened by excessive rain and the same cause has lowered the quality of the crop as a whole. Sunburst roses are of splendid color, the deep shade being attributed to the cool nights.



DELPHINIUM

In dark and light blues. Wonderfully attractive in any kind of work.

\$5.00 and \$6.00 per 100

RAMBLER SPRAYS

Mostly Dorothy Perkins and Lady Gay.

\$5.00 to \$25.00 per 100 Sprays

PEONIES

\$4.00, \$5.00 and \$6.00 per 100

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1608-1620 Ludlow St.
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Franklin & St. Paul Sts.

NEW YORK
117 W. 28th St.
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1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	CINCINNATI June 19		CHICAGO June 19		BUFFALO June 19		PITTSBURG June 19	
Roses								
Am. Beauty, Special.....	35.00	to 40.00	20.00	to 25.00	20.00	to 25.00	15.00	to 20.00
" " Fancy and Extra.....	20.00	to 30.00	15.00	to 20.00	15.00	to 20.00	10.00	to 12.00
" " No. 1.....	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00	6.00	to 8.00
Russell, Hadley.....	8.00	to 15.00	3.00	to 20.00	.....	to	4.00	to 12.00
Killarney, Richm'd, Hill'don, Ward	6.00	to 8.00	6.00	to 8.00	6.00	to 8.00	6.00	to 10.00
" " Ord.	3.00	to 5.00	2.00	to 4.00	3.00	to 6.00	3.00	to 4.00
Arenburg, Radiance, Taft, Key, Ex.	6.00	to 8.00	6.00	to 8.00	5.00	to 6.00	.....	to
" " Ord.	3.00	to 5.00	2.00	to 4.00	3.00	to 4.00	.....	to
Ophelia, Mock, Sunburst, Extra ..	6.00	to 8.00	8.00	to 10.00	.....	to 8.00	6.00	to 10.00
" " Ordinary	3.00	to 5.00	2.00	to 6.00	4.00	to 6.00	3.00	to 4.00
Carnations, Fancy.....	2.00	to 3.00	2.00	to 3.00	2.00	to 2.50	.....	to 3.00
" Ordinary.....	.....	to 1.50	1.00	to 2.00	1.00	to 2.00	1.50	to 2.00
Cattleyas.....	50.00	to 60.00	50.00	to 60.00	40.00	to 50.00	40.00	to 75.00
Dendrobium formosum.....	.....	to .....	.....	to .....	.....	to .....	.....	to
Lilies.....	10.00	to 12.50	8.00	to 10.00	6.00	to 10.00	8.00	to 10.00
Lily of the Valley.....	.....	to 5.00	4.00	to 6.00	4.00	to 6.00	4.00	to 5.00
Daisies.....	.....	to .....	.25	to 1.25	.50	to 1.00	.....	to 1.00
Mignonette.....	4.00	to 6.00	2.00	to 5.00	1.00	to 2.00	.....	to
Snapdragon.....	4.00	to 8.00	4.00	to 8.00	3.00	to 6.00	.....	to
Peonies.....	.....	to	4.00	to 6.00	3.00	to 4.00	2.00	to 6.00
Gladioli.....	4.00	to 8.00	8.00	to 10.00	3.00	to 6.00	6.00	to 8.00
Calendulas.....	2.00	to 3.00	2.00	to 3.00	1.00	to 3.00	.....	to
Stocks.....	2.00	to 3.00	1.00	to 3.00	1.50	to 3.00	.50	to 3.00
Sweet Peas.....	.50	to .75	.50	to 1.00	.50	to 1.00	.30	to .50
Gardenias.....	.....	to	10.00	to 15.00	10.00	to 15.00	.....	to
Adiantum.....	.....	to 1.00	1.00	to 1.50	1.00	to 1.25	.75	to 1.25
Smilax.....	15.00	to 20.00	12.00	to 20.00	15.00	to 20.00	12.50	to 15.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to 50.00	25.00	to 50.00	20.00	to 30.00	30.00	to 50.00

Business is good only at times. The supply is very large and meets with a very irregular demand. Prices as a whole are rather low although shipping business is holding up fairly well. American Beauties and other roses are in a good supply and excellent. Some very fine Ramblers are coming in. Gladioli meet with a ready sale. Lilies plentiful. Carnations in a heavy supply but of rather indifferent quality. Lily of the valley and orchids are having a very substantial call.

Slowly but surely the tide is falling in the flower business and unmistakable premonitions are seen and felt of that peculiar lassitude which is due to descend about this time on the entire wholesale flower trade district of New York. It is not quite the same in any other city that we

have ever had an opportunity to compare. The cut is getting smaller, the quality is growing poorer and general trade is falling off from day to day, and then after a while the bottom is reached and one might as well close up shop and steal away. The only excitement occurs when some buyer comes along in a frantic hunt for some special thing that is difficult if not impossible to find. Scarcely a day passes without some such episode. "Price is no object" then, but that does not help any when the goods don't exist, although they may have been in cumbersome abundance a fortnight ago. A strange business this is in its vicissitudes, irregularities and unforeseen emergencies!

There has been a considerable improvement in trade conditions here. We seem to be

(Continued on page 87)

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Choice Cut Flowers

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NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS

	Last Half of Week ending June 17 1916		First Half of Week beginning June 19 1916	
American Beauty, Special	20.00	to 25.00	20.00	to 25.00
" " Fancy and Extra	10.00	to 15.00	10.00	to 15.00
" " No. 1	3.00	to 6.00	3.00	to 6.00
Russell, Hadley	3.00	to 15.00	2.00	to 15.00
Killarney, Richmond, Hillingdon, Ward, Extra	3.00	to 4.00	3.00	to 6.00
" " Ordinary .....	.50	to 2.00	.50	to 8.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 4.00	4.00	to 8.00
" " Ordinary .....	.50	to 3.00	1.00	to 3.00
Ophelia, Mock, Sunburst, Extra	4.00	to 8.00	4.00	to 8.00
" " Ordinary50	to 2.00	2.00	to 3.00
Carnations, Fancy	1.00	to 1.50	1.00	to 1.50
" " Ordinary50	to 1.00	.50	to 1.00

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Telephones, 13-8510 Madison Square

MAURICE L. GLASS, Treasurer

Consignments Solicited

Flower Market Reports

(Continued from page 865)

over the worst of the glut, including the peonies. What peonies are available now are mostly cold-storage and are bringing fairly good prices. Good roses are selling well, the leaders being American Beauty, Russell and Hadley. These three have held their quality better than most others all along the line. There has also been a good demand for Rambler sprays, and this still continues. Carnations are plentiful but the quality is nothing wonderful except in a few isolated instances. The lily glut is about over and these will be back to normal very shortly. Delphiniums in the free, graceful and showy forms, such as Belladonna, are quite a feature of the market and meet with much favor. They are a valuable addition and a bright spot just at this time of year. Sweet peas are still holding their own pretty well. The hot weather hasn't hit them yet. We haven't had any hot weather to speak of so far. Of course there are wagon loads of blue cornflower. They sell in large quantities, although at low figures, as there is nothing more chic and lasting for a boutonniere. Lily of the valley seems to be in good demand in some places but slow in others. Prices are above normal everywhere on this staple and indispensable article.

The wholesale cut flower ST. LOUIS market experienced a good month in both demand and consignments. Much was expected by the retailers for decorating work for the National Democratic Convention, and this with graduating work and weddings kept them quite busy and ended the season in glory. We have had plenty of rain and outdoor stock is looking good. This with cool nights has kept up the quality of the stock fairly well. The market contains plenty of roses. Carnations are still excellent. Lilies are up and so is lily of the valley. Sweet peas sell well at present time. Fancy ferns are scarce.

The June rush is WASHINGTON about over and the stores are beginning to feel the usual slack season of summer. There has been an oversupply of rain, punctuated with hailstorms that have been more or less damaging. The heated period is now at hand and stock is beginning to show the effects thereof. Sweet peas continue to be as good as have ever been seen in this market and hold ready sale. Lily of the valley remains scarce but is not in the great demand of early June. Roses from northern points are good and sell well. Peonies are still to be had although the local crop is about over with. Carnations are showing the effects of the weather and are very cheap. Water lilies are seen in every store. Cattleyas are more plentiful and selling better. Lilies are stagnant.

PERSONAL.

Peter M. Rennie has accepted a position as gardener to Mr. H. F. Webster, Pen Craig Cottage, Newport, R. I.

Maurice Fuld is out of the Knight & Struck Company, and has opened an office in the Brokaw Building, New York City.

PATRICK WELCH, WHOLESALE FLORIST

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American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

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MISCELLANEOUS	Last Half of Week ending June 17 1916		First Half of Week beginning June 19 1916	
Cattleyas	15.00	to 25.00	15.00	to 25.00
Dendrobium formosum	20.00	to 25.00	20.00	to 25.00
Lilies	2.00	to 4.00	2.00	to 4.00
Lily of the Valley	5.00	to 6.00	5.00	to 6.00
Daisies	.50	to 1.00	.50	to 1.00
Mignonette	1.00	to 2.00	1.00	to 2.00
Snapdragon	2.00	to 4.00	2.00	to 4.00
Peonies	.50	to 2.00	.50	to 2.00
Gladiali	2.00	to 4.00	1.00	to 4.00
Calendulas	1.00	to 2.00	1.00	to 2.00
Stocks	1.00	to 2.00	1.00	to 2.00
Sweet Peas	.15	to .75	.15	to .75
Gardenias	15.00	to 25.00	15.00	to 25.00
Adiantum	.50	to 1.00	.50	to 1.00
Smilax	10.00	to 12.00	10.00	to 12.00
Asparagus Plumosus, & Spreng (100 bunches)	15.00	to 25.00	15.00	to 25.00

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I have an unlimited market for your flowers, any variety, in any quantity. Prompt returns of sales on consigned goods. Ready cash when due. A clean record of twenty-eight years in the Cut Flower Commission Business.

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Bedding plants: Geraniums, Nutt, Ricard, Poitevine, Vind, Bunkler and Ros. Geraniums, 3 1/2 and 4 in., \$6.00 and \$8.00 per 100. Cameris, Austria and Robusta orange, 3 1/2 in., \$6.00 per 100. Heliotrope, dark, 3 1/2 in., \$6.00 per 100. Saxia, Redder, 3 1/2 in., \$5.00 per 100. Dracena indistincta, 5 in., \$2.00 per 100. Salvia, geraniums, Greens, Trailing Queen, double Sweet Alyssum, Begonia Vernon, white Marguerites, blue Ageratum, 3 in., \$4.00 per 100. Cash.
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Everywhere, U. S. A.

Dear Sir: It will be a decided advantage as regards prices and quality to place your order with us.

Soliciting your order through this ad cuts down the overhead selling expenses and you positively get lower prices and better quality. Our terms are liberal and are a guarantee that you get a square deal, all bulbs guaranteed true to name or money refunded.

Write us and upon request we will mail you our booklet giving prices f. o. b. New York or Chicago, and we also cheerfully furnish you with any information that may be desired. Those of our friends who will mail us a list of their requirements will find it has paid them to do so.

Awaiting to hear from you at your pleasure, we remain, Yours very truly,

Westerbeck & Klyn,

Sassenheim, Holland.

Write to WESTERBECK & KLYNN, 11 STONE ST., NEW YORK, N. Y.

BULBS AND TUBERS—Continued

Henry F. Michell Co., Philadelphia, Pa.
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Joseph Breck & Sons Corp., Boston, Mass.
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W. E. Marshall & Co., New York City.
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Arthur T. Boddington Co., Inc., New York City.
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Fottler, Fliske, Rawson Co., Boston, Mass.
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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK Branch, 8-10 Bridge St.

CANNAS

Rowan J. Irwin, New York City.
For page see List of Advertisers.

Newest list of the newest Cannas just out. Complete assortment of the finest sorts, at remarkable rates.

Send for list today.

THE CONARD & JONES CO.
West Grove, Pa.

CARNATIONS

Cottage Gardens Co., Inc., Queens, N. Y.
New Carnation Cottage Maid.
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Wood Bros., Fishkill, N. Y.

F. Dorner & Sons Co., Lafayette, Ind.
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CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 postpaid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

R. Vincent, Jr. & Sons Co., White Marsh, Md.

Pompon Chrysanthemums.
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Elmer D. Smith, Adrian, Mich.
New Chrysanthemum Catalogue for 1916.
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Guttman & Raynor, Inc., New York City.
Early Lavender Pink Chrysanthemum
Alex Guttman, also Emma, a Garza
Anemone, Double Pompon,
pale pink.

For Sale—About 500 extra good Odesia out of 2 1/2 in. pots, \$8.00 per 100. Cash with order. E. G. BLANEY, 163 Burrill St., Swampscott, Mass.

Chrysanthemums Yellow Bonnafton, White Bonnafton, Halliday, Chas. Razer, Chieftain and Pacific Supreme rooted cuttings, \$10.00 per 1,000; topped plants out of loam, \$15.00 per 1,000. Cash, please. CHAS. H. RICE, Bedford St., Lexington, Mass.

CYCLAMEN

CYCLAMEN. Best strain. Separate colors or mixed, 3 in. pots, \$8.00 per 100, for May delivery.

JULIUS ROEHRS CO., Rutherford, N. J.

DAHLIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.

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Send for Wholesale List of Whole clumps and separate stock; 40,000 clumps for sale. Northboro Dahlia and Gladiolus Gardens, J. L. MOORE, Prop., Northboro, Mass.

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DAHLIAS—Continued

IF YOU INTEND growing Dahlias for cut flowers then you will make no mistake if you will try my assortment, especially selected for cut flower production. Three whites, 3 pinks, 1 red, 1 yellow, 1 lavender, 1 fancy; all field roots, labeled true to name; per 100, 10 of each kind, \$3.00; per 1000, 100 of each kind, \$25.00. 50 at 100 and 500 at 1000 rates. Cash with order. Guarantee entire satisfaction. If interested in Dahlias, then please send for my wholesale trade list of Dahlias.

MANNETTO HILL NURSERIES,
W. A. FINGER, Prop., Hicksville, N. Y.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

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High Grade Plants for Retail Florists.
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A. M. Davenport, Watertown, Mass.
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DRACAENAS

Dracaena Indivisa, nice plants, 4 in., \$10 and \$15 per 100; 5 in., \$20 and \$25 per 100. Cash. **CHAS. H. GREEN,** Spencer, Mass.

EXCURSIONS

Hudson Navigation Co., New York City.
To the Heart of Lelsureland.
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GERANIUMS

R. Vincent, Jr. & Sons Co.,
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Geraniums out of 3½ inch pots, \$7.00 per 100. Cash please. **LEONARD COUSINS, JR.,** Concord Junction, Mass.

S. A. Nutt, R. C., \$10.00 per 1000; 3 in., \$5.00 per 100; 4 in., \$8.00 per 100. **FRANK LEITH & SON,** Haverhill, Mass.

GERANIUMS—Continued

Geraniums, 3½ inch, in bud and bloom, \$7.00 per 100. **S. A. Nutt,** Poitevine, Vinca Variegated, 4 inch, heavy, \$12.00 per 100. Cash. **CHAS. H. GREEN,** Spencer, Mass.

GLADIOLI

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Greenhouse glass, lowest prices. **JOHN-STON GLASS CO.,** Hartford City, Ind.

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H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
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GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish goods, nets, etc., wholesale. **FRANKLIN BARRETT,** Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

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writing to Advertisers kindly mention Horticulture

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R. Vincent, Jr. & Sons Co., White Marsh,
Md.
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PHOENIX CANARIENSIS

In all sizes. Special price-list on demand.
JULIUS ROEHRS CO., Rutherford, N. J.

PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
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"Riverton Special."
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Montrose Greenhouses, Montrose, Mass.

Guttman & Raynor, Inc., New York City.

Rose Prima Donna (Mine, Paul Euler)

THE CONARD & JONES COMPANY.

Rose Specialists.

West Grove, Pa. Send for offers.

275 two-year-old Sunburst, out of green-
house bench, clean strong plants, ready
July 1st, \$8.00 per 100, \$20.00 for the lot.

ROY A. HATCH, Chiffendale, Mass.

ROSE STAKES

The Carnation Support Co.,
Connersville, Ind.

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RUBBER PLANTS WANTED

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Md.

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SALVIAS

Salvia Splendens, out of 3 1/4 in. pots, \$5.00
per 100. LEONARD COUSINS, JR., Con-
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SEEDS

Carter's Tested Seeds.

Seeds with a Pedigree.

Boston, Mass., and London, England.

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SHELF BRACKETS

Metropolitan Material Co., Brooklyn, N. Y.

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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and

orchid baskets always on hand. LAGER

& HURRELL, Summit, N. J.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.

Gold Medal of Honor Winter Orchid Sweet

Peas.

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The Davey Tree Expert Co., Kent, Ohio.

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VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.

White Marsh, Md.

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Celery Plants, Golden Self blanching

(French Strain), Giant Pascal and Winter

Queen, fine plants, ready for the field, \$2.00

per 1,000; 5,000 for \$7.50. Cash. BRILL

CELERY GARDENS, Kalamazoo, Mich.

VEGETABLE PLANTS—By mail or ex-

press prepaid. Strong, well-rooted plants

in large or small lots at reasonable prices.

Will probably replace any that do not ar-

rive in 1st-class condition. Leading va-

rieties, Cabbage, Tomato, Cauliflower, Cel-

ery, Sweet Potato, Asparagus, Rhubarb,

Beet, Lettuce, Pepper, Egg Plants. Also

Asters. Catalog free. HARRY M.

SQUIRES, Remsenburg, N. Y.

VENTILATING APPARATUS

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VERMICIDES

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VINCAS

13,000 Vinca Var., out of 4 inch pots, \$10.00
and \$12.50 per 100. Cash please. LEONARD
COUSINS, JR., Concord Junction, Mass.

Vinca Var., 4 in., heavy, \$12.50 per 100;
good, \$10.00 per 100; extra heavy, \$15.00 per
100. WILLIAM CAPSTICK, Auburndale,
Mass.

WEED KILLER

Pino-Lyptol Chemical Co., New York City.

Pino-Lyptol Weed Killer.

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AND PEONIES.**S. S. Pennock-Meehan Co., Philadelphia, Pa.
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For page see List of Advertisers.**NEW BOOK****JUST ISSUED****Plant Propagation Greenhouse
and Nursery Practice** By
M. G. KAINS

So many discoveries of new facts by plant investigators, shortcuts and "wrinkles" worked out by plant propagators, and nursery, greenhouse and garden methods simplified or made more effective, have made books hitherto available on plant propagation out of date.

There has also been an insistent call for a volume that would not only include the character of information wanted by nurserymen and other plant propagators, but also discuss the subject of plant propagation from the standpoint of fundamental principles, and include the latest conclusions advanced by investigators throughout the world.

This new book by Professor Kains will appeal with equal force to the amateur, the professional propagator, and the teacher in agricultural colleges and schools.

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The table of contents includes: An introduction on general principles, germination, seed testing, potting, layerage, bottom heat, cuttage, classes of cuttings, graftage, and theories and laws, Daniel's experiments in graftage, tree stocks and scion handling, grafting waxes and wound dressing, methods of grafting considered individually, budding methods, nursery management, and laws affecting nursery stock.

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A GOOD INVESTMENT.

The following letter, which has been received from the chairman of the National Flower Show Committee by all subscribers to the guarantee fund, tells its own story—a story that should make all true friends of horticulture feel happy:

Dear Sir:—The very gratifying results of the recent Fourth National Flower Show at Philadelphia, has enabled the committee, in behalf of the Society of American Florists and Ornamental Horticulturists, to return to the guarantors a 10 per cent. profit on the full amount of money subscribed to the guarantee fund, instead of 10 per cent of the amount paid as per call.

The immensity of the National Flower Show was such that we feel that thanks are due you as one of its supporters, and surely the object is being achieved when 100,000 people view the fruit of skill and labor of America's most prominent growers and merchants.

Philadelphia has received a horticultural benefit which could not be had by any other means. One-half million lines of reading matter was published in the newspapers and magazines, besides the paid advertising. More people paid admission to this show than at any two flower shows ever held in this country.

Again thanking you for your co-operation, which made this possible, we remain,

Very truly yours,
NATIONAL FLOWER SHOW COMMITTEE,
GEORGE ASMUS, Chairman.

Chairman George Asmus, of the National Flower Show Committee, Secretary John Young and Treasurer W. F. Kasting, had a meeting in Buffalo on June 7 and 8, to audit the report of the Philadelphia show and it is promised that a complete and final report will be made in the course of a week or two.

CLUB AND SOCIETY NOTES.

Southampton (N. Y.) Horticultural Society met on Thursday evening, June 1st. The Secretary reported the ten vases in the Art Museum Park filled with one exception. G. E. M. Stumpp kindly offered to fill that one, it being now out of the prize competition, which closed June 1. The chairman of the show committee reported fine progress in show matters. G. E. M. Stumpp offered a cup to be awarded as the Society shall think best. W. L. Jagger read a paper on Gardening: the Experience of an Amateur.

The annual rose show of the Nassau County Horticultural Society was held at the Nassau Country Club, Glen

Cove, N. Y., on June 15. Roses, peonies and other seasonable garden blooms were shown in profusion by members of the summer colony.

The principal rose exhibitors in competition were Harold Pratt, gard. Frank Johnson; Herbert Pratt, gard. Henry Gaut; John Pratt, gard. John Everitt; S. D. Brewster, gard. Harry Goodband, and W. E. Kimball, gard. James McCarthy. It was too early for the H. P. roses, but the Teas and H. T. were very fine. A nice table decoration was put up by Jos. Adler, gard. for Harvey Ladew. Prominent non-competitive contributors were C. F. Cartledge, gard. Wm. Noonan, and Mrs. J. F. Agre, gard. W. C. Jones, both of these receiving special honors.

The horticultural trades interests in Great Britain are urging that since the importation of foreign-grown bulbs, etc., has been forbidden by the government, the order should also as a matter of justice exclude the entry of cut flowers.

Philadelphia — Rupert Kieule, the well-known retailer at 17th below Market St., suffered a broken ankle from an auto accident on the 17th inst. He was taken to the Women's Hospital nearby.

A ROCK GARDEN EXHIBIT.

We have had considerable to say about rock gardening of late because we believe it to be a department of garden art with a big future. Several good examples of such work have been shown at various exhibitions the past spring. The example which we illustrate on this week's title page was much admired by visitors, and considering that it was under a tent, with no background for a setting, it was well done. At the same place next year we have the promise of some elaborately constructed rock work in the open and with a setting of trees and other accessories.

STEM ROT OF THE PEONY.

Referring to the query and answer on this disease appearing on page 819 of our recent issue, a successful peony raiser says that stem-rot is often brought about by the use of too much manure close to the stems. Avoiding this and adding careful observation, plus clean culture, he asserts that no trouble may be feared from stem-rot.

BUSINESS TROUBLES.

Washington, Ia.—Mills Seed Co., voluntary petition in bankruptcy.

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Obituary

Charles B. Wetherby.

Charles B. Wetherby, florist, died at his home in Fulton, N. Y., on Saturday, June 10. He was fifty-seven years old and is survived by his widow, one daughter and one brother, William Wetherby, Oswego.

E. Neubert.

The death is announced of Emil Neubert, whose name is connected with the lily of the valley trade of Hamburg. Mr. Neubert, who was 85 years of age, had been in his early years a member of the staff of Dippe Bros., the Quedlinburg seedsmen. About sixty years ago he went to Hamburg and established the nursery at Wandsbeck.

Charles E. Shackley.

Charles E. Shackley, for many years engaged in the florist's business in Auburn, Me., passed away Monday night, June 12, at his home, 325 Turner street, after several months of painful illness. He was born in Dover, N. H., 68 years ago, and came to Lewiston with his parents when quite young. He carried on the florist's business at the Turner street greenhouses for many years. Mr. Shackley is survived by his wife, and two brothers, Horace of Lewiston, and Frederick of Boston.

David H. Laney.

David Hobbs Laney, a pioneer florist of Woodhaven, New York, died Sunday, June 11, on his seventy-fourth birthday from a paralytic stroke, at his home, 1812 Woodhaven avenue, where he had lived for thirty-six years, and was for thirty-three years in charge of the Grosjean estate. He was born in South Wamboro, Hampshire, England, June 11, 1842, and had been in this country forty-six years. He leaves a widow, Hannah, and three grandchildren.

Philip Edward Moon.

Private Philip Edward Moon, of the Seaforth Highlanders, was killed in action on April 28th, at the age of 19 years. He was a son of the late Henry Moon, the best flower painter of our day, and grandson of Mr. F. Sander, Bruges and St. Albans. The sympathy of many in the trade will go out to Mr. and Mrs. Sander and Mrs. Moon in their bereavement. His Captain, in a letter of sympathy, says: "Philip was a brave soldier and a good lad—one of the very best—and he has, for a long time, had our admiration and love. I will always treasure the memory of him; his great love of nature and his knowledge of flowers was so wonderful to us all."—*Horticultural Trade Journal*.

Nicholas P. Kruchten.

Nicholas P. Kruchten, son of Mr. and Mrs. N. J. Kruchten, and secretary of the firm of N. J. Kruchten & Co., lost his life in an automobile accident at Lawrence avenue and the river, Chicago, on the night of June 13th. At first it was thought the machine, which was being driven at high speed, collided with the rail of

the bridge but later a defective wheel is regarded as the cause of the accident. Mr. Kruchten died almost at once and his two companions were seriously injured. N. P. Kruchten was 29 years of age and was in active charge of the growing end of the business at 5308 N. Western avenue, two brothers, John and Henry, having charge of the wholesale store in the Atlas block. Nicholas Kruchten also leaves a wife to whom he was married six years ago. The funeral was held from the home of his parents on Friday and interment was in Graceland cemetery.

MASSACHUSETTS AGRICULTURAL COLLEGE.

Prof. A. H. Nehrling, head of the department, is to be married on June 29 in South Bend, Indiana. He will go to Colorado on his wedding trip.

The Department of Floriculture is closing up its work for the college year. With the reorganization of the work and the addition of new courses the department has been able to carry on its professional duties better than in the past. In order that the students may have practical experience to supplement the professional courses given by the college, the department endeavors to place men on private estates and commercial places during the summer vacation. This year the department has been able to place 14 men for the summer work.

A. S. Thurston, assistant in the department, is to teach the courses in floriculture to be given in the Summer School. Under the direction of A. S. Thurston the perennial garden has been enlarged and quite a number of new plants have been added. The garden at present includes a very representative collection of herbaceous perennials; it contains about 3,000 plants representing 450 species and varieties. The perennials are planted in large beds, each genus and species being correctly labeled. Although the garden is not planted for effect, but for educational purposes, it makes a very effective showing with its variety and succession of bloom against the background of green furnished by the wide grass walks.

ST. ALBANS, ENGLAND.

A personal letter from Mr. F. Sander, Sr., of St. Albans, England, conveys the sad intelligence that his grandson has just been killed in action, to which Mr. Sander adds "His life was to me dearer than my own." Mr. Sander keeps closely in touch with events horticultural on this side of the water and is especially rejoiced over the great success of the big popular flower shows in this country and the rapid advance of commercial orchid growing, a condition which he predicted when he visited the United States some thirty years ago.



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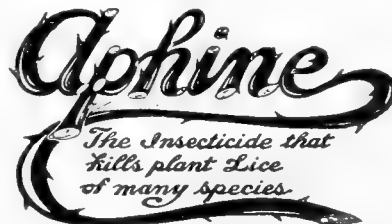
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POT MAKERS FORM CREDIT ASSOCIATION.

A brand new Credit Association was organized June 17 at Atlantic City, N. J., with the makers of 90 per cent. of the pots used in this country, in attendance. Twelve potteries, located in the eastern section of the United States, were represented.

The vital subject of Credit was the drawing card and the meeting resulted in the appointment of a committee of two to plan details for the conduct of the Association and to report at a future meeting. The organization will be known as The Pot Makers' Credit Association.

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Pittsburgh, Pa. — Saxonwald Greenhouses, Castle Shannon, addition.

Kimberly, Wis. — William Greene, Kimberly Greenhouses, additions.

Providence, R. I. — Richard L. Horgan, 280 Eaton street, one house.

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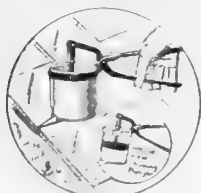
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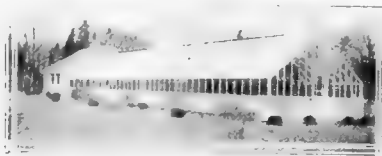
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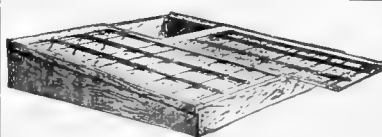
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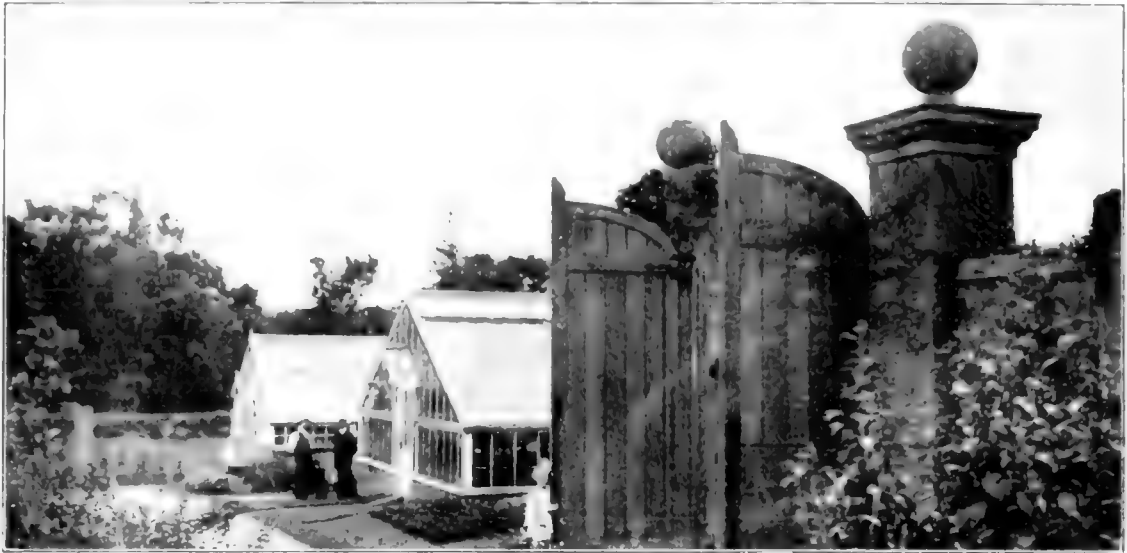
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